The noircesity was determined

avoiding redundancies and by meet-ling agreed pay settlements from the funds it had, he said.

Its income was about 7 per cent

higher in cash terms thao for 1976/

77, from which it had to pay solacies

Universities fear estimates too low for inflation in next year's grants

the assumption that salaries will in-trease by 5 per cent and prices by IJ per cent is prong, universities will suffer "further serious domoge" unless they receive more

than the 1 per cent announced by the Government because of universi-

Fears are mounting that the covered product of contents about the element allowed for follation in the universities' recurred gram for next year will be datingingly low. Sic Jobo Habakkuk, chiermun of the Committee of Vice-Chancellors and Principols, has werned that if the assnoppion that startes will interest by the sample of the content of the committee of vice-Chancellors and principols, has werned that if the assnoppion that startes will interest by the sample of the content of

No more than one half of all posts falling vincont could be frazen, Liverpool said, it serious and irreproble daotage to teaching and research was to be avoided and the noiversity's contribution to the conamoiry areintained.

University the said.

University the said of the state of the said of the said

NUS demands more posts to meet medical student boom

Britain's expanding output of nedical students is an the point of outstripping the another of luspital jobs for new graduates, the National Union of Students warned this week.

Unless the Government takes Unless the Government takes humodiate stops to create more proregistration posts, anedical students whose education has cast the country £40,000 will be multiple to practice as doctors, the NUS said. (The low requires all graduates to work in "pre-registration jobs" for a year before they are registered as qualified doctors.)

However, the NUS made it clear thut, unlike the British Medical Association, it does not believe Britain is training too toany new doctors. "There is a dunger of medical students being used as a segment to require the housein. scapegoat to maintain the burgain-lug power of sections of the profession who are unwilling to fece the real problems of medicel career structure and the fulling scandard of patient cere."

and wages, it was difficult to essess axactly the value of the grant, but in real terms it was being cut at a tion when the university's resources were over-strotched and student numbers were sull rlaing. Indeed, the NUS wants medical school intake to expand to meet the Government's 4,100-e-year tocget,

This could be ochleved, the union suggests, by inclining a much wider range of judor posts within the scope of pre-registration jobs: for excople, geriatric, psychlattic and midwifery posts in hospitals, end work in health centres. At present pre-registration experience is norm-

ally confined to general melouil surveys.

The imoledisia problem is severe for Landon medical realized line capital liss loss 35 press. The capital liss loss 35 press. The capital liss loss 35 press. I have capital liss loss 35 press. I have capital liss loss 35 press. I have capital list in the capital list in the capital list in the capital list. sources to the poors my and Ilulversity of Local of inficials four some model of uses will be unable to far with the noxt two year.

They say that mistake fighting for available pool of the color of putting off point of the color of the color

candidates.
If ontiling is done in shortfall in preregional reach 500 by 1984, he polymotes, equivalent to the

cated that it supports he as it floding new house that in moves yet to make new joles by allocated of funds. There is a wist to

NIIS suys.

"It olso appears hat be assurances from the Disserved structure of the Disserved state of the Disserve

SSRC proposes radically new studies of bureaucracy

The Social Science Research Council The Social Science Research Council is planning a series of new initiatives in the study of the Notlonal Health Service, the workings of Whitehall, the nationalized industries, and local government. Three working parties have recently completed reports which are now being circulated among academics for comment.

comment.

The council has already decided to establish a panel with a badget of £250,000 to provide graats for research on the health securice. Applications ore shortly to be invited from researchers and special favour will be given to teams working out multi-disciplinary projects.

Future intrintives include the setting up of a unit in Scotland to monitor local government reorganimonitor local government reorgani-station there; encouraging research into the relationship between per-monent civil secvents and politi-plens; giving local authority officers and politicians a bigger say in whot research is done; and devoting more attention to the relationships of government and private industry.

of Brucel University, was to consider the allocation of responsibility among the SSRC, the Department of Health, the Medicol Rasearch Council end other bodies.

Working groups on local government research and the study of central government, led, respectively, by Prufessur John Slewatt of the Institute of Local Government Sunling at Birmingham, and Professor Trank Stacey of Northighom University, were to deforming SERC tosourch priorhies in these areas.

Both these groups have tecommanded that permanant panals be set up by the SSRC to guide the study of government. Both emphasized the need for research that could estope the rigid deportmental divisious of contrad and local government. The philosophy of "torporate management" by local authorities was said to dictate the ascape from single ecademic subjects.

monoist civil secvoots and politicities and politicities

Geriatricians find fresh ha

Unit-regardates in three modical achools in the livited kles received no formed fostruction in meriatrics in 1975-76. This inenching thus devoted to the speciality in the remaining 31 cilicial schools varied from four to about 100 hours.

Mr Richard Wokeford, if the Contro for Medical Education for the Sough the in which it has been had sugars, investigating medical education for the Goneral Medicol Chuncil, gave these details from a report to be published in Septembor to a conforence on education in uging and getlairle modicine on Monlay.

He ulso relessed a few interesting findings about the tunic-graduato our iculum us o whule, For exacule, only three modicies schools hed ochieved full integrated reaching, but in 21 schools two-thirds or more of the three matches the schools two-thirds or more of the tropic of matches was still taught traditionolly by subject.

Significant chauges in teaching grietric medicine had been maile recently in 21 schools, "the common denominated being the recognition of the topic os oppropriete and lessiveblo for undergradatoto teaching, and further chauges or enticines for the topic os oppropriete and lessiveblo for undergradatoto teaching, and further chauges or enticines left as ouch as possible to the schools made it clear that their steff included no geriatric specialists only they relied on full-rine NIIS loctors for teuching.

The conforence was organized for the subject was being the in which it has been lyal on the captures. As the chair a medical school was the control of the copy of the feel on the captures of the subject was been lyal on which it has been lyal on the captures. The chair and subject was the control of the topic of the copy of the feel on the copy of the feel on the control of the copy of the feel of

civic centre opposite the college: was held et Birmlogham Medical staff".

Buckingham Pulace, many universities decided that the Queen's jubilee would have to take second

Cambridge was one of the lenders of the loyal field with the pastponeoient of exacilnations and a request from the vice-climicallar that acodemic dress should be warn in the streets from plant to dusk. Doctors were asked to purade in scarlet, Bullillugs, including Si John's College and the Senate Rouse, were floodlit in her Majesty's honour.

Senate House, Cambridge, floodlit to relebrate the jubilee.

Exams before jubilee

Manchester, too, provided a tauch of extrovagance with a ninuer for its members of the sentur common roon at the price of £6.90 u head and with a suitably orajestic menu. consonne Royale was followed by prached salmon Elizabeth 1, filet of beof Henry IV and ye ulde England trifle.

lo Rossiling they said it with flowers. The initersity gardeners, who carried off a gold niedul at the Chelsen Flower Show, tlevised a flower bed incorporating the royal crown oud the Berkahlre rose.

by Jadith Judil

Universities tackled this tyeck's silver jubilec celebrations in o spirit of considerably less excilement though a stream of loyal academic atessages has been sent to Bucklasham Pubres, many university.

An avenue of oak trees, to be planted at Reading will supply the unother piece of harticularual homeometric forms. A spokesion augusted that one reason for the display of loyoly oright be than the university is the only one within sight of Windsor Cusile "from the fullest building on a very clear day".

sity took part in a pracession to the cathedral on Sunday but the noiversity decided that examinations should continue on usual. "We ore in the middle of the busiest time in the uculemic year," a spokesnum explained.

At Bristal, too, examinations find tempered the rojoleings. A spokes and said: "We find all the flags and four felt we would not have the onapower in the middle of examinathus to take part in the chy's jublice procession."

jubilee procession."

There were many loyal greetings. Salford, where the Duke of Edinburgh is chancellor, wrote to say they were "settsible of the honour of the association" and Reading expressed its "humble duty". Loncaster spoke of its "deep gruticude." for the Ouese's saysion. London. for the Queen's services. London and Essex also sent loyal messages.

At Leeds, Worwick, Surrey and London there were no official celebrutions. At Bradford, the flag flew and the university had a holiday.

UGC sets deadline for Cardiff link-up

THE TIMES

Higher Education

SUPPLEMENT

The University Grants Committee has settled on the end of July as the deadline for the three university institutions in Cardiff to submit proposals for their joint develop-

University College, Cardiff; the University of Weles Institute of Science and Technology; and the Welsh National School of Medicine have been asked to drow up an "outline growth plot" to eliminate unnecessary duplication and nanke the hest economic use of existing facilities.

facilities.

"Only on this basis cen proposals fur the committonent of addition cupital resources be justified in the particular circumstances of Cardiff", the UGC says.

Sa fur the ward "merger" has not been mentioned, but the three principals have already discussed proposals for a joint library, and many lecturers feel that such a more would inevitably be followed in the future by rutloaslication of departments. Sir Frederick Dainton, chairmon

suggosted that one reason for the display of loyolty onight be that the university is the only one within sight of Windsor Cusile "from the tillest building on a very clear day".

At Salford onother out tree will be planted by the Ri Rev Edward Wirkham, chairman of the university council.

In Extend, members of the university took part in a pracession to the cuthedral on Sunday but the notyersity derided that examinations.

to acquire a new sile) prompted the suggestion that the colleges' needs should be considered in relation to

"the ubsence of any clear evidence of progress along these lines". It arged the institutions to produce an "outline growth plan", which would deal infriely with the auticless of fond. "Inevitably the coorminee would be seeking in this way to establish that economic use is an of the available provision averall. They would not wish to press for the achierement of the surficest rationalization with tonthe

to eliminate through effective pleve lopment planning any major dupl catton of cesonrees."

cation of cesonrees."

The committee envisages that academically similar departments would on be duplicated, unless it could be shown that "both resulting departments were economic in size and no extra capital cost would arise in consequence of the duplication". It goes oo: "Conversely, where

or it goes oo; "Conversely, where diplication exists, the justification for it should be thoroughly examined and the opportunity afforded by this exercise to eliminate unuccessary duplication should be taken."

It worns that divided responsi-bility for deportations or for build-ings or facilities could be a source of trouble, but that "some shared use of academic and physical resources would be essential if the best interests of the university were

best interests of the university were to be served."

The three prinicipals have held two meetings since April 29 under the chairmonship of Lord Justice Edmund Davies, pro-chancellor of the University of Wales. The next meeting is planned for July 1. Although the present proposals would have no implications for the structure of the University of Wales, fears ore being expressed that if there was a merger in the future there would be one institution much larger than the other constituents colleges.

University College of present has about 4.500 students, The Schund of Medicine has about 640, and UWIST 2.700.

obout.

"It is reasonable to conclude, therefore, that the UGC envisages in the bot too dislant fulur a University of Cardiff."

So for the three lost lutions have

So for the three lostilutions have contiously accepted the proposals as they stand. Mr F. Horris-Jones, registrar of UWIST, said; "The UGC has orgued cooperation from the economic point of view, and we all agree that there is a great deel we coo do and lrove much to goin. But we in UWIST feel we have something to offer as a separate in stitution and want to stay that way."

A centre for the study of the social species of mass medio is being Spanish elections

dischers and their trainers to seablish the Polyment of a stactional torum dischers and their trainers to make the polyment of the feducation with the security of the National Association of Teachers. This will, the polyment of the Executive of the National Association of Teachers in Further and Higher Education luner his anoth.

The scheme, proposed within the salons own ranks, has been disconsting own ranks, has been disconstant of the Council for National Academic Awards end head of a working land in the confidential segred of a classed executive meeting ofter the slady's acade executive meeting ofter the slady's acade executive meeting ofter the slady's acade executive meeting ofter the slady and scheme the past. But following its inclusions of the Council for National Academic Awards end head of a working land in the confidential segred of a classed executive meeting ofter the slady's acade executive meeting ofter the slady's acade executive meeting ofter the slady's acade executive meeting ofter the slady along and academic confidential expertise.

While the NATPHE is known in the wake of a discussion of the Council for National Academic Calledon and Schoole Repertual Confidencial Polymer later the proposed professional expertise.

While the NATPHE is known in the wake of a discussion of the Council for National Academic Calledon and Schoole Repertual Confidencial Polymer later the mount is the Covernment's Council State of the Council State of the

Clive Cookson talks to the Princeton physicist,

Professor Gerard O'Neill about his programme for large-scale colonization of space, 7

Student grants

Contents

Space utopia

Students' financial problems will slowly increase, predicts Ernest Rudd, who sees the long-term solution in a loan scheme, 9

Welsh colleges

Judith Judd concludes her look at the regional effects of the teacher cuts by visiting Wales, 6

After expansion

Ralf Dahrendorf asks where is the place for the university's traditional role of research and advanced learning in the postexpansion era, 5

Staging Shakespeare

Andrew Gurr reviews three new books which discuss the problems of putting Sliakespeare's plays on

On ideology

Raymond Williams discusses the changing analyses of ideology, 13

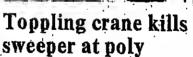
Harry Debelius reports on how education figures as an issue in the country's. first free elections for

tlceboard		•	: 4
n's diary	٠,		. 5
rth American	news		. 10
erseas news	•		11
tters			12, 23
oko	·.	· .	14-17
assifier index			18

Conference motion to ban NF

An attempt to ban members of the National From and the Netional Porty from the National Association of Toachers in Further and Higher Iducation will be made as the property from which will be made as the property from the National Association of Toachers in Further and Higher Iducation will be made as the property of the National Association of the National Associ

National From ond the National Association of Toachers in Further and llighter (Education will be made at the work of the control of Toachers in Further and llighter (Education will be made at the work of the control of Toachers in Further and llighter (Education will be made at the work of the control of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of Toachers in Further and llighter (Education will be made at the work of the work of Toachers in Further and llighter (Education will be made at the work of the work of Toachers in Further and llighter (Education will be made at the work of the work of





150-foot crenc crashed on to the roof of Wolverhenipton Polytechnic on Mooday, its toppling

Interview with Gerard Onki Andrew Gur review h in performance Raymond Williams on life.

Review of Ben Joneon's

NEXT WEEK Reorganization of the folip

Ernest Rudd oo stilden gra

TIMPE INTERPREDATE AND THE PROPERTY OF THE PRO

Union to consider teacher forum

The now NATFIE plan also tochers shoold have a strong pice in Colla Certife

A sew plan for a mational forum plan for a mational forum polytechnics to establish the Polytechnics and their trainers to technics. Council for the Education favour.

London to get

Call for DES control over training

A unified department of education, science and training to prevent centres being started outside DES control was arged by the 400 delegates at the annual conference of the National Association of Teachers in Further and Higher Education

In a debate on the plight of Britain's young unemployed the conference, attempting to lessen the growing involvement in training of the generously funded Manpower Services Commission and its agencies, voted for the second year runolog to establish one unified government department.

The coll, opposed by the union's executivo who fear that the TUC will not welcome such a move, was with not vercome sich a move, was successfully made efter the confer-ence had voted for an urgent gov-ernment action programme of edu-cation, trolnlog, and job creation projects for the young unemployed.

Mr Bill Buckley, a member of the union's executive committee, told the conference that the number of unemployed young people aged under 25 had risen by 100 per ceot between 1972 and 1976.

A motion from the north western branch urging a radical overhaul of the uncoordinated financial support systems for young people ovailable through government agenties

Delay sought for furthe
TEC and BEC courses able through government agenties was narrowly defeated.

But there were also harsh words about the Helland report, published last month, which was described by about the Helland report, published last month, which was described by one delegate as an insult to young people. Mr Jeff Altermae, another delegate, declared: "It makes frightening reading and suggests that youth unemployment is becoming endemic in the system."

Mr Jion McArthur, of the Inner London branch, maintained that the report disguised the problem. It was, he claimed, a scandal that the MSC had failed to produce figures on the unemployment levels in the seporate uge groups.

Branches 'should support abortion?

The gradual decline of the left

A statement on woges that it would take a medieval theologica to mirrorel was adopted by the National Association of Tenchers in Further and Higher Education at Harrogate during Jubilee (weekend, The conference also heard praise of further educathan in East Germany, toyed with the blea of a closed shop in the colleges, and bemoaned the face of the young unemplayed.

In three days of meetings in and around the spatown's hotels and conference rooms, the liveliest debate was, surprisingly, not about money, jobs, or interfering validating councils, but about abortion and women's rights. Much energy was expended before NATFHE adopted a position held for a long time, quite turcontroversially by the old technical teachers' association.

tenchers' association.
Shades of the furmer Association of Teochers in

Shades of the firmer Association of Teochers in Technical Institutions gathered of the valedictory performance given by Tom Driver, who is retiring as general secretory of NATFIE. Finger-wagging and admonitory, he hectored the ambience in his basic profundo voice before sitting back to hear a string of tributes to his years of service to further education and to the trade union movement.

The marriage of the Association of Teachers in Colleges and Departments of Education and the ATTI from which NATFHE sprints is still in its early doys, and somotimes the cracks shuwed. There was a slight feeling that the college of education members have diluted the association's politics. Officials are now said to be spending four-fifths of their time on college of education infuirs while college teachers number only 9,001 of NATFHE's

officials are now said to be spending four-fifths of the conference that the number of unemployed young people aged under 25 had risen by 100 per ceot between 1972 and 1986.

The current year wos the wurst for youth unemployment sluce the ward and every forecast showed it would worsen, he warned. By the actumn of 1978 there would be 350,000 young people without work and during the next five years that number was unlikely to fall below 100,000.

Mr Derck Weitzel, an executive member and forner NATFHE president, added: "The number of 16-year-olds will rise by more than 20 per cent between 1974 and 1981 you nothing has been done to provide 20 per cent nore jobs." The spiral of deprivation had to be checked und the best of the teaching profession should now be mounting specialized courses to provide for tills group of people.

The confarence deplored the "continuod neglect" of unempluyed young people but welcomed the approach of the MSC's Holland report as a basis for the government programme. It elso called upan the further education system,

A modion from the north western branch urging a radical overhand of the urging a radical overhand of the urging a radical overhand or the further education system,

A modion from the north western branch urging a radical overhand of the urging a radical overhand or the urging a radical overhand or the urging a radical overhand or the further education system,

A modion from the north western branch urging a radical overhand or the urging and t

Delay sought for further

training for all young people to the age of 19. NATFILE decided that the Mannaver Services Commission and its offshoots were not to be the means towards this end. In the background is the broad left view that there can be no olignment of education and training antil society changes and the jobs for which young people are being trained are socialized.

are socialized.

Unemployment is naturally an emative issue. Mr Derek Weitzel, a past president, spake movingly at his work at a social centra for young jobless in Coventry. The line between education and social work blurred. Immediately after him, however, and heard the voice of hard occatance unlysis; meamployment was the deliberate creation of the Labour-Government. Mr Jeff Curter, of the Onlec London region, spoke of tainted funds from the Training Services Agency and regretted "education appartunism." on the part of his follow teachers who are speuding job creation and skills money.

But If the 16-19 eree needed rationalization, NATFIIE found the husiness and technician education councils to be wanting in their role as systematizers of the diplomas and certificates provided for craft training by young people. The TEC and BEC debate became a litony of complaint about additional time spent on administration, unaccountribilly, interference.

One guide to conference feeling is how many

One guide to conference feeling is how many pieces of paper are tirust into delegates' hands os they eater the conference hall. This year at Hurrigato it was indicative that only the "ronk and file "organization of left-wing teochers and the pro- and anti-abortionists made much of a showing. On the coaference floor Mr Malcolm Lee, a member of the executive and a former ATCDE octivist, ande a spirited attempt to have any discussion of abortion ruled out of order. It was not o subject, he said, which was relevant to the concerns of a teachers' trade unlan.

Women—who were fairly sparse among the delegates—repiled, and an extensive commitment to women's rights was adopted. The motion substantiales NATPHE's claim to have one of the best records in the public service field for socing to the interests of women prophere.

records in the public service field for socing to the interests of women members.

Aport from this, Harrogato was in a sense a passive canference. NATPHE was responding to the plupricks of the Government's policy out job creation, coming to terms with the fait accompli of TEC and BEC. It decided to follow the TUC amjurity line, but gave ambiguous advice to its delegates to the TUC out how they should vote out incomes palicy.

NATFHE did not strike out on its own policy lines of llarrogate, but faced with reductions in educational spending, the college closures, and the general economic climate, that perhaps was to be expected.

expected.

The associotion still has much credit in the shape of ATTI policies. The architect of much of them, Mr. Driver, goes—but what is perhaps the brightest light of his years as general secretary, the Houghton may settlement, still easts its glow arer proceedings. How hang even that relative degree of content about salaries will last is something for his successue to fuee.

scale and the problems were vated further by the green cial situation. Since 1269 the organiza

Since 1269 the organism teachers in further and higher cation had changed in many Membership of the NATHIA small at 70,000 and a paint membership scheme the Education Institute of Education the figure at later this year.

But he warned in a phase state of the same and the same

sing of the conference data was no room for complete Nearly 1D pur cent of all file nor were the majority of pro-teachers. A further 5,000 life members should be recorded

the next academic year. Restrictions on local govern spending were now having salimpact on other areas of leading and other areas of leading to take additional of further education of further education of further educations are being cut and ending the control of the c

with open the current was culled fur this week by Mr Juck Hendy, retiting president of the National Association of Teuchers in Further and Higher Educotion.

Its odvised delegates that the time had come when members might well be odvised in decline to conterato or work with louling the might widh them.

In 1970 the Association of the noion which last year merged with the moion which last year merged to associate the total form the Natifile, voted in favour of a closed shop but stopped short of enforcing it. The sixths of the current membership of the NATFIE.

Mr Hendy sald that a fedoration

We can all hupe for an impactance last in the but uur immediate last in fight ogainst the cuts mich being proposed now."

Throughout the year copenies with other unloas bit by the owing public expenditure had been in public expenditure ha

to policy and legislation in the real world."

Mr Charles Clarke, NUS president, sounded the oluma about the effects of increased tuition lees which, he said, could only reinforce the bastions of privilege by ensuting that only the weolthiest would be able to attend university.

Forocasting that many potential students would have to give up full-time studies, he said: "The outlook is bleak and getting worse, particularly for those who do not get mattdatory grants. A lorge number of local education attithorities are cutting back on the number and size of grants. We are nothing away from the idea of admission by addity to admission by the ability to pay." He said he feared there would be a swing from general educational confess to vocational training and he suggested that interestics should be made accountable to local education outhorities to make them more responsive to the needs of saciety."

Mr Machine explained the financing of the education system and forecast that it would suffer increasingly from competition with the needs of sucial services desere to the hearts of politicians. "Education lost its sex Grants had not come about merely through the generosity of the welfare state but becomes of the demand in a post-industrial society for qualified people. This demand had meant that the universites had become a necessity for practically all the key controlling practically all the key controlling positions at the head of all the professional hierarchies of society.

"Whether or not a degree gives a qualification for a specific career, it has become the ocknowledged passport to a better-paid and anneastisfying Job. And hence both the fich, who now hove to send their children to naiversity to qualify for the top jobs which used to be theirs as of right, and the less affinent and even the ambitious poor have crowded loto higher pay and the chief road to higher pay and the chief road to higher pay and status,"

It is system and to recast that it would suffer increasingly from competition with the needs of sucial services descer to the hearts of politicisms. "Education lost its sex appeal in the mid-1960s", he said. "It has been dourn-graded os an instrument of social reform."

It such that for many one of the great disappointments of the ground system was that it had not much altered the sociol make-up of unliversities. There was little roun for announce, however. "Instead you could try giving the anney to the students and letting them lary the kind of education they want."



Professor Paul Matthews, vice chancellor of Bath University, last week opened the Crafts Study Centre at Bath's Holburno of Menatric Museum. opened the Crafts Study Centre at Bain's Holdburto of Mentatric Missemu. The centre, a joint venture between the university and trustees of the nurseum, contains a majone collection of twentieth century pottery, woven and printed textiles, colligraphy, and embroidery.

Professor Metthews (left) is with Mr Junes Noel White, chairman of the crafts centre and Mrs Junet Leech, the wife of the notter Bernard Leech one of whose dishes she is holding.

Examine work needs—union

An investigation into the educutional needs of school-leavers preparing to start work was suggested this week by the National Association of Teation.

In a written submission to the Mouse of Contmons select committee examining the ottainments of school-leavers, which concluded its hearing last weak, the union maintained that if school-leavers shown to be unsbla to fulfil the; especiations of smalloyers, a well-finided problem of amployers, a well-finided problem of amployers, a well-finided problem of the secondory achool curriculum of

forunemployed

The Cabinet is currently debuting the f168m puckage of proposals to help Britain's young memployed outlined earlier this mouth in the Holland report and will give its verdict in a week's time, it has been revealed.

It is also considering a second impublished report on the plight of unemployed young people aged 19 or more produced by the sume Manpower Services Commission team, Mr Geaffrey Hollood, head of planting at the MSC and chief architect of the report, told a London conference.

He issued strong warnings that the issued strong warnings that the number of nucomployed school-leavars was not expected to fall, aven if the economy improved. At least 83 per cent of young neoplo leaving school this year would have difficulty in finding lobs and the level of initial unemployment in this oge group was expected to rise.

this oge group was expected to rise.

Unemployment among young steeple had risen every year for the projections by the MSC hed shown uncomployment among young peopla fulling below 100,000 in the next five years. The most pessimistic projection showed that the numbers could rise to 450,000 next year and stand of 350,000 in 1981.

The least qualified and less able

The least qualified and less ablo young people had been hardest hit by uncomployment. The new programme of action now under consideration by the Government should be designed to meet the personal needs of Individual young people seeking permanent employment, said Mr Holland.

Both he and Mr Gerald Fouler

ment, said Mr Holland.

Both he and Mr Gerald Fowler, former Mioister of State overseeing higher education, told the conference, organized by the Young Volunteer Force, that the new programme should link the world of education and work.

M. F.

and work.

Mt Fowler said o coherent strategy was needed for employment, training, and recurrent education, a possibility ignored by the Government's great debate on education. He gave warning that the Holland report, while it should be welcomed, could lead to a stuadon where education was primarily for the better off and training for the innerer and less oble school leavers.

Referring to the rift between the

innorer and less oble school leavers.

Referring to the rift between that work of the Department of Education and the generously funded ogencies, including the MSC, of the Department of Evologueut, he said that education and trouling had to be brought together.

Ile also proposed e single comprehensive education end training allowance for young people. There were feats voiced at the conference that the training allowances proposed in the Holland report would draw potential students away from further education. This sector, said Mr Fowler, had been criticised for falling to prepare students for infalling to prepare students for in-dustry, but it had proved the most adaptable sector of the education

The London University membership of the National and Local Government Officers' Association is about 3:300, and not 23 as published in The THES (May 27).





Chort Intensive courses of practicel itelating besed on the work of Teny Guzen. Reading phoroughly and lest patterned intensive in the patterned intensity and lest patterned intensity and lest patterned intensity and patterned in the patterned

d Courses.

CCARNINO METHOOD OROUP
(THCS)

54 HANDETEAO WAY
LORIOON WYNT 7XY
Telephene 01-455 8288 (24hrs.)

Local branches of the NATFHE should support a woman's "right to choose" on abortion and foster links with those presentations came paigning to maintain and existing racibites for abortion, the action this autumn against the Gov ment employees, to present a for the future.

Stopped short of enforcing it. The former ATTI represents about five sixths of the current membership of the NATFHE.

Warning of stronger union Union of Teachers and local government employees, to present a stronger plan for the future.

Stopped short of enforcing it. The former ATTI represents about five sixths of the current membership of the NATFHE.

Warning of stronger union Union of Teachers and local government employees, to present a stronger plan for the future.

Further education teachers are ducation to present a stronger union this autumn against the Gov ment employees, to present a stronger plan for the future.

The techniciant and business education councils, which are currently producing new courses for 400,000 further and higher aducation students, camo under ltarsh criticism fram dolegates at the conference.

A molion was possed calling for the introduction of further TEC and BEC courses until the structure of the courses had been ogteed by the mion as desirable on education as a desirable on education of the new programmes.

Mr Joe Whittingham said the present Ordinary National Certificate and Diploma courses had been swept away without reason after fully satisfying the needs of industry for years.

COURSES

Ile demanded the use of properly organized pllot schemes to prove the wilne of TEC programmes to troining schemes duction as a necossity befute such reachers involved in their introduction as a necossity befute such reachers involved in the structure of the courses had been ogteed by the which as defined by TEC is a myth. The 'chalk face' lecturers that an to beec consulted and onany of them simply do not wont the TEC programmes."

Delegates instructed the notional executive committee, which claimed that there had been coosultation, to encourage mambers to refusa to cooperate in the introduction of new TEC or BEC courses requiring extra administrative time allowances had been negotiated.

pagning to mental and extend a designate vicinities for abortion, the conterence decided.

A warning of stronger union action this equimin against the conterence of the conte

Hendy urges closed shop

Closed shop spreements for college and polytechnic lecturers was culled fur this week by Mr Juck

Accountancy still leading field in bleak jobs market

Accountancy still leads the field in the demand for groduatos, according to the onough report of Mr C. A. Sibpper, Newcostle University's chief careers adviser.

Many qualified eccountants wero now nowing from privote practice into lodustry and generol business, larga growth area might soon occur to the Civil Sarvice, where up to now accountants have had no specific coreer path.

While obsolute numbers of gradinales entering chartered occountancy were increasing (from 2,261 to 2,653 to 1974/75), the percentage they but the proportion of entrants with two A levels had dropped slightly.

"Silght though it la, wa wonder whether this might be the first small."

Although the proportion of graduates about graduate more against unto first comployers had just responded to university expansion or whether this might be the first small.

Jobless graduates face toughest year Since 1945, Nottingham report says

The fob market for graduates noxt stage the war, according to the 1976 sty's career's edvisory board.

The mumbers of graduates available for Jobs this summer is likely to be at least 10-15 per cent up on in year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, Some of the 10 per can of list year, it, says, school teaching was being run down, and the National Health Service was oot able to afford all the ductors being produced. "Only the Church seems to fully rather thon going on the fully rather the graduate fully rather thon going on the fully rather the graduate fully rather thon going on the fully rather the graduate full rather the graduate fully rather the graduate full rather fully r

ent holding a personal chair in clinical pharmacology at the Queen's University

Professor Devek Robinson, at present professor of theoretical physics at the University of Alx-Marseille, has been

Pro-cliancellor: Emerina Professor Sir-John Biggari (reelection for five years). Lecturers: Alan Lyness Bell (civil cagineering); Mys Elizalteth McWhirter and Karen Trew (psycho-logy); Gay Beolans (agricultural and

The Records of the British Alator ladustry and their Preservation", a three-day conference organized by the palities and idsory department in Lanchester Polytechnic, will be field on june 27-29. Visiting lecturers will converted active a from the Short Courses Unit, Lanchester Polytechnic lintuative for indergrathinate, nost graduate and conference organized by the partitions from the Short Courses Unit, Lanchester Polytechnic lintuative for indegrathinate, nost graduate and confirming medical education of one of the Secretary and Register. The institute of Mathematics on the study of surface waves, circulation of the necess, lifes and short surges, internal ware propagation and other toxics. Further particulars from the Secretary and Register. The institute of Mathematics and lifes and circulation of the necess, lifes and circulation of the necess. Ideas and circulation defect toxics. Further details from and other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and the Secretary and Register. The institute of Mathematics and lifes and circulation ware propagation. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Register. The institute of Mathematics and lifes and circulation was other toxics. Further details from the Secretary and Registers. The institute of Mathematics and lifes and circulation was observed to the secretary and Registers.

8-05 2

7-46 People and Departmentors: Army
171.552; prof Cr.
Making Stokes of States : Stop duper1507; Prof. Prof. plag 171.
1507; Prof. prof. plag 171.
1507; Prof. plag 171

Saturday June 11

11.28

11.50

8.28

fined chemistry); Malcolm Wood and John Stationed (Lory); Galifich Barlium (Hallan), Temporary lecturers; Mrs Ethne Harkness (public luw); Hillan Avery (English). Port-thuc fecturer; Marie Kennedy (psychiatric problems of the young). Honorary lecturer; Mr Alan Nichols (physical education).

Title of reader: Dr F. J. Erans relec-

oppolyted to a chair of pure mathematics at the University of New South Wales. He will take up his position in the parties of the will take up his position in the chair of geology at 1 Iniversity College, London, has been appointed in the chair of geology at 3 Bedford College, London, trong through the file of professor of computer sofemed in respect of his post at Birks beek College, London.

The J. J. Florentin has been awarded the file of professor of computer sofemed in respect of his post at Birks beek College, London.

The J. A. Langhian has been awarded the file of professor of electroal and the vicant chair of blochemi try at Leefs University with citery from Bond chemistry): Makedian Wand and priced and electronic engineering in respect of his post at Queen Mary Coflege, London. In Dayli Cuye, at present in the department of genetics and bridge University, has treat appointed professor of genetics and lond of the partment at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of electrosic engineering in respect of his post at Queen Mary Coflege, London. In Dayli Cuye, at present in the department of genetics at Cambridge University, has treat appointed to the department at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of computer with the college, London.

The Dayli Cuye, at present in the other appointed to the department of genetics at Cambridge University, has treat appointed to the department at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of computer with the department at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of computer with the department at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of computer with the department at Leeds University from January 1, 1978.

The J. Florentin has been awarded the file of professor of computer with the departmen

tribal and electronic engineering, Queen Mary College).

Longiborongh
Lecturers: Dr W. G. Salt (medicinal chemistry); Mr A. Bronin (technomic and social history); Mr M. J. B. Hall leconomics); Dr J. P. Word (engineering mathematics); Miss M. M. Wörsching (German); Mr M. R. Mathews intanagement acromating); Miss J. IV. Taylor (social administration).

An exhibition of 7n polotings in the collection of Dr Robert Lillie which includes work by many artists from Scordand, England and abroad is being held until June 16 at the University of Edinburgh. The core of the collection is a scries of early trentleth-century paintings by such artists as Sickert, Peploe and the Scottish colourists.

Universities

Letus Mining and Mineral Sciences, FIG. 150 from the SRC for a product on kinetics and thermodynamics of metal extraction with rhelating and cationic extractions under Br N. M. Rive.

Textile industries—14,070 from the SRF for a project in high-resolution studies of surface structure and structureal heterogenicity in ration (three under Dr D. J. Johnson.

Dr D. J. Johnson.

Physhology—13,450 from the MRC for research from visceral afferents in the dorsal mile ventral routs of cuts and their roles in the countral of spidia tessingles Dr J. F. B. Marrison.

Cardioviscular Studies—15,000 from the Wellcome Trust for an Investigation into reflex implropher responses of the ligant residing from long initiation under Dr R. Hubisworth.

Blochemistry-£16,299 from the MRC for studies on the primary structure of whice rhodousin and on the urganiza-tion in situ of the native molecule under Dr J. B. C. Findlay.

Phurmacotagy—12,000 from the British Heart Foundation for research on healt tyrostice hydroxylose in the genesis and maintenance of experimental hypertension under Dr M. R. Lee and Dr H. G.

Medicine (LGI)— £6,454 from Mant-power Services Contribision for blo-medical usistance (three trainee tech-nicions), under this direction of Dc D. A. Hull.

Nothingham University's Adult Educailon Summer School will be held from
July 9-15. Courses will cover ideoloides in induit education; the planning
of training courses for part-time teoichers in adult education; and instituitional ond curricular natterns. All
highlies to J. L. Perkey, department
of adult education, University of Nutilingham, 14-22 Shukespeare Street,
Nutringham.

Medicine (LG1)—£6,454 from Mantpower Services Countiesion for blouncident sistance three traines techindican usistance three traines.

In adult education, University of Nutindican usistance three traines.

In adult education three traines.

In adult

thrulngical Surgery-LL8n E-British Empire Cancer Camp-a project on Rypukalaenta in-teratemia, hypochioraenta inhibitary growth in most of francia unious under the de-of francia Project Canal Medical Physics 12,600 from tor a project on development thation of a Zeeman eller, absorption spectrometer under the Ramsont.

Community Mediche and Studi fice—E29,600 from the Gapte, ficalith and Social Security for neutral mortality study one fessor 1. D. G. Richards. Requestion Studies—1138 5 3 Alanyanyer Services Commercial project on economic andreas inations in the Britis cores 5 1975 notice Dr F. II. Caple 1135

Suchal Policy and Admirate (86,75h) from the Joseph A. Memorial Trust for the 100 feb (100 feb) for the 100 feb (100 feb) feb) feb (100 feb) feb) feb (100 f Earth Sciences—18,000 from Suclety for an investigated science array states using the frithead.

AAGIO 4 1945) Andrew Control of the Money Supply, 1922 and Wiles and Programmes for North Scotland and Scotland and Wiles and Park theory: Control of the Money Supply, 1922 and 1922

Systems (Is hashner commanded thans in Planning (1994); using the Pangaran Design of the Pangaran (Is) 201; prog 6). We say Experiment (19)201; prog 6). The maintend of the Experiment (19)201; prog 6).

(lepedler: Confied Interdance in Strainteding (1899), prog. 71 Ising Libraries, (14) Bonds app. Libraries, (14) Bonds app. Libraries, (14) Bonds Inc. The Lody House English and the Record of the Confidential Programmer Confidence and Appelled Libraries Libraries and Appelled Libraries Libraries and Yfficialists (Missier). 7.65 7.30 See Education of The Allients (1971) 1972.

Leading 1972.

Leading the College Country (1971) 1972.

Leading the College Country (1972) 1972.

Leading the College College Country (1972) 1972.

Leading the College C 16.35

16.86 Can Injuried and Learning within and Literature 12.22 (accept the property of the proper RANIO 3 [VMP]

U.00 Intan Edit dilog: Unassirty of Market Plant (Ed.); bron 9; bell Plant (Ed.); bron 9; bell Plant (Ed.); bron 9; linguistrated Coulty: Lenital theorem, with greatly: The Hard (Ed.); bron 14; bron 15; bron 16; b RADIO 3 IVHPI

Ropigsement Programmes for thorth Scotlang 22.00 | Injustrial | Foldinas | Injustrial lost |
00.20 | Injustrial | Relations | Pull | Reput Gr. |
00.20 | Injustrial | Relations | Pull | Reput Gr. |
00.20 | Pull | Pull | Pull |
00.40 | Injustrial | Relations |
00.40 | Injustrial | Edward |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1.11 | 1.11 |
1

10.25 | Personality and Legening: Schools age 1

Louncil Curriculum implantation prolect (1.20): prog 8).

1.60 An introduction to Marcelate Silik

Louncil Curriculum implantation and Sacisty.

1.60 Mass Pommunication and Sacisty.

1.70 Introduction to Marcelate Silik

Louncil Curriculum implantation and Sacisty.

1.70 Introduction in Marcelate Silik

1.70 Introduction 0.40

7:03. House Continue at 1118 14.6. If the line of the

published. In recent years the Prize has been who by graduales who are getting near in the submission of their thoses and by university facturers.

Further particulars are available from

ROYAL HISTORICAL SOCIETY

Applications are invited for the Annual Alexander Prize awarded by the Royal Historical Society for the best Bessy upon any historical outliet. Cardibates must submit their choice of a subject to the Literary Olrector for approval and and in their assay, which should not saces 8,000 words in length, by November 1. The succeptual saces will be published in the Society's Transmitteness and the striker will be everyone a cilver madel. The sceny is required to but a place of original, research not hitherto published. In recent warm, the Price

the Secretary, Royal Historical Society, University College London, Oower Street, Landon WC1E SBT.

Monday June 13 Spiris, Liquida and Daser Bulusion (STARS) prio 61 Sectal less student Manya lisportones of the World Divisi pron 9). Coc 2 G.40 The Highlat (Semiller) Group Her Perhiberate (1822); 1 wall of the Cock of Semiller Medicals (1822); 1 wall of the Cock of Semiller Medicals (1822); 1 wall of the Cock of Semiller Medicals (1823); 1 wall of the

6.20 'filenory of Architecture and Destin 1891-1959 ; Plarer Charged : Melson de Verra (ASC) ; jurga 161; Melson de Melson de Melson de Verra (ASC) ; jurga 161; Melson de 16.60 War and Society i War and Misid

16.20 Plantistina the internal development

The Vehicult Mentikin School (1204)

18.40 Plantistina Theology is 10 little to the internal development of 10 little to the internal development in the internal developme

Designing to Physics (1996) ping (1996).

Introducental Control and Public Relief (1996).

Introducentary of Patibled Relief (1997).

Topics in Parts Statementes: Hings topics in Parts Statements. Hings topics of Parts Statement (1997).

The John Statement (1997).

The Philint Computer: Intellette Pethnoral (1997).

The Philint Computer: Intellette Pethnoral (1997).

The Malore of Laundary, Port (1997).

The Malore (1997). 16.20 . 6 16.20 Pajierna of Inengality ; Pasiera Pur-ona / Hapistra (1742); prog 161. Language and Learning ; Writing and Laterature (E.262); prog 11.

Open University programmes June 11 to June 17

13.05 Kinship and Projunquity 15.05 prot of Mathematics: Linear Programs 15.05 prot of Mathematics: Linear Programs 15.05 prot of Lord 15.05 prot MACIO 3 IVIF1 Drains : Bitual Branca as Collective Experience (ASIT) : pueg 121. Systems Augulillar : Itack to Square One (1754) : prog 51. Nettenselics : Prog 51. Lagic (2) - Proof : MIIIO : prog 17).

24.00 Twontigh-reliefy Protry 'Purga-lory' (A376; prog H) 90.20 Windern Ary Irura Tean to the Pres-ent : 1913—Your of Cultima (A33); prog H) 90.40 History of Mathematica: Hifmeion of the Arab'c System in the West

RAGIO 4 (VNF) Excluding north Sections and Wales

0.05. Open Forum—11.

ALEXANDER PRIZE

The Venue Program Equation:

Joseph Spiceco and in bound and Polythmas Recentling Education (AST281) program (AST281) program

18.10 Into Ago of Burgolithans: Raid and Tuesday June 14

RADIO 3 (VIE)

12.46 Open Formal Properting for Summer 12.45 Properting for Summer 12.46 Open Formal Properting for Summer 12.46 Condemontal Supering for Summer 12.40 Condemontal Supering for Summer 14.40 Condemontal Summer 1

CONFERENCE OF DRAMA SCHOOLS

II has been agreed by the Neilonal Council for Drains Take (NCDT) that the Interests of Orama Schools in the validation of Cadure at present being adopted by the NCDT should be received by the Conference of Orame Schools.

Applications are therefore better the conference of Orame Schools.

Applications are, therefore, invited from any interested Schools.

Orama/Theatre for membership of the Conference of Orama/Schools Applicant schools must provide at least a two-year full-line in least of course in acting and/or raisted disciplines such as management or directing. managament or diracling.

management or diraciling.

Any achool wishing for further dateils of criteria should solve the company of the c M. Cormeck, Hori. Sec., Conference of Drama Schools, Rose Brulord College of Spesch & Orsma, Lamorbey Park, Kent.

Dom's diary

Saying goodbye

Saying goodbye

The worst of having twe's farencell party same time before leaving is not the status of the status that one moves into the status of the living dead. For the next three weeks I must sneak around the that one moves into the status of the living dead. For the next three weeks I must sneak around the university apologizing on vecidentally meeting a colleogue whose eyes, only a few nights before, had welled with 70 degree proof tears os he said how much lie'd miss me, and now wishes f would move out so he sanny side of the building.

My transitional status has redered ms reflective, even mandlin, a mood subspaced by the recum of Looking for Clance on TV I suppose a number of its working class boys who struggled out the grammar school ladder have been urged on at least in port by the desire to escape that lingering the looking or that lingering and looking the lingering and looking or that lingering the looking or that lingering and looking or that lingering and looking or that lingering the looking or that lingering the looking or that lingering are least to be seen that lingering are likely such as the living of encouraging "mature" applicant. In took me a year to become distillusioned with literature. I had little sympathy with my more cultivated nears in their ways and family.

desire to escape that lingering small of holled cubbage which per-

from surging delayed adolescent suigidal impulses.

illing me. I returned to the local dissipated, and there was something of a moral fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to under a fervour among the young lecturing steff who sought to convey to us tha forces that activote men and the visions that lift their souls, as well os the ferrities of power were floods of the self-their souls, as well os the ferrities of power were floods of the self-their souls, as well os the ferrities of power were floods of the self-their souls, as well os the form my female occupant of the self-their souls, as well of the souls are their souls, as well of the self-their souls, as well of the self-their souls, as well of the souls are their souls as a particular souls and independent of the self-their souls, as well of the souls are their souls, as well of the souls are their souls as a particular souls are the souls



1968, the year of Porls and London-but not Granada

combet is to be explained as the antenne at constraint or realivity, or establish indeed, it can be "explained" at all, continue to ey cite me as into leas when I litsi dis-covered them.

Two years were spent at Oxford, at first an abrasive and lonely outsider inoclinately preoccupied by such minor indignities as the existence of high y-ble and a senior common room. The Wanden of Nuf-field displayed throughout a most urbane foreligatance in the face of

my noral indignation.

But then, as I suddenly acquired a wife, a six-year-old daughter, and a sense of personal stability which moved in with them, I actually began to enjoy the city. High rathe—which after all was only used twice a week —ceased to rouse my wrath. Nuffield provided a unafluor that

Nuffield provided a top-floor flat in morth Oxford that was simply a delight. A criminologist inhabited the ground-floor flat with bis wife and two daughters. The three children formed an alliance which work undermined any some of soon undermined any sense of decorum the surprisingly transient occupatis of the widdls-floor flut might seek to maintain.

From there we moved to Stirling in a dishevelled grey Volkswogen.

With a lectureship come cur owner-thin a ministration of the surprising the surprisin

of any fubuless grammar school reachers.

As my twice weekly sallies into the mysterles of irregular verts and even geometry made their mark, I finally by the found in Essex a university that was prepared to chance its arm based on a wholly admirable policy working of encouraging "mature" appillecants. It took me a year to become disillusioned with literature. I had little sympathy with my more cullifiers of jane Anaten. Something more robust was needed for a late flowering intellect.

An excellent Essex Institution come to my sill. An intercolated Year learning Spanish—and what then seemed a most generous gram myself with a stack of Greet Thington. The mind two daughters. The three children formed an alliance which to eccumnate a miliance which the gramml-floor flat with bits wife mult be descounted any sense of decorum the surprisingly transient occurnates of the middle-floor flut might seek to maintain.

From there we moved to Stirling in a delight. A criminologist inhabiter the ground-floor flat with bits wife mult be daughters. The three children formed an alliance which soon undermined any sense of decorum the surprisingly transient occurnates of the middle-floor flut might seek to maintain.

From there we moved to Stirling in a delight. A criminologist inhabiter the ground-floor flat with the ground-floor floor floo

And a second part of the second

Ralf Dahrendorf

terious which see the role of university education purely in terms of vocational qualification.

But from Stirling we go to Belfast. And the barroades, the guard posts, and the barroades, the guard posts, and the bricked-up and burnet out buildings, a university smazingly thrives despite the odds. Its, continued functioning to doubtless a sitiough it was not part in their remit; or interest; to engage in dayloriday polities. They were the places for their surpness, although it was not part in their remit; or interest; to engage in dayloriday polities. They were industrially fostered by its vice-chaocellor.

This move will damand the learning not merely of a new job, but of this kind of representative activity into the control of th

This move will damand the learning mot merely of a new job, but of a whole new set of routines for living. Already it has strained our capacity for reaching even that most basic docisions.

Where do we do with the children? Where should we buy n house? In Belfost these questions take on dimensions for which the best advice in the world generates of obviously reliable weightings.

We have lately taken to watching the news with a peculiarly mortid descination, aliminating areas at the least mention, from our map of description, if wonder, look back on this transition?

Roy Wallis

The author is a lecturer in socio-

tion many traditional claims with unitating alde to justify them—and on the other band, expansion, instead of increasing the space for autonomous teaching and research, appears to reduce it. Unless we learn to distinguish—indeed to differentiate—we are going to lose an essential feature of a rivilized society without replacing it by any-thing similarly worthwhile. The problems expansion left behind

society without replacing it by any-thing similarly worthwhile.

A large post-expansion university system clearly serves a variety of purposes which have nothing to do purposes which have nothing to do with the idea of advancing knowledge in a combination of teaching and research. They train large numbers for a rather complicated world of employment falthough I have pointed out in an earlier column that one must not be naive about this objective). They are, willy-nilly nectures, places of acceptable volume.

this objective. They are, many-may perhaps, places of acceptable volonitary unemployment.

They provide opportunities for realizing objectives of social policy, such as providing more equal opportunities for certain groups. They runities for certain groups. They serve as mechanisms of "sceening" and selection for mony pasitions. They incidentally also provide a base, a power base almost, for the new oducational class, or

Casic.
One may not like these objectives—and the traditionalist certainly will not—but it is difficult tainly will not—but it is difficult to see how universities can easens the many social functions they serve, even if they have not chosen them themselves. Indeed I think that it is better for universities to think about ways of doing those things well then to reject them; and this is very largely a question of links between universities and the

same institution. This is clearly not a very popular idea.

It could imply, for example, that when there are cuts, these are not applied ocross the board but differently. It would imply the encouragement of claims for butside support on the part of some institutions. It would imply recognition of demands to have scote only-raise conceptrats is really or antiroly ties concentrats isrgely or antiroly

oo postgraduetes. Indeed, it would imply a kind of chequers strategy for universities:

The author is a lecturer in sociology of Stirling University and has
just been oppointed to the choir of
sociology at Queen's University, Bellarge institutions of bigher educologs a signt of the foot that interesting sity expansion has not only solved
privilege.

I do not want to be iconical about problems, but also created them.
And among the new problems that
thet after expansion we run a
double danger: on the one hand,
large institutions of bigher educolimportant.



reorganization in Wales. Below the 1972 to 1981 reductions are shown.

In Wales the fate of colleges has been shaped by pressures auknown on this side of the border. Nationalism has already played its part in the history of teacher training in Wales and the present proposals are no exception.

the presont proposals are no exception.

Bangor Normal College, with only 400 teocher troining places, and was saved from a merger with University College of North Wales a year ego, so that it could develop as a specialist institution for Welsh-medium teacher-training. The Government's decision to tetain the college came after protests from the local euthority end the Council for Welsh Lenguage. After thet, this year's scheme which suggests the college should be kept with its numbers unchanged can have surprised few observers of the Welsh scene.

In the light of the published criteria, itow-ever, the decision looks less cleor cut. Bangor Normal 4s amall and basically monotechnic, tho type of institution which the reorganization has used to evoid except in erees such as Cuorbrie where no other higher educetinn is available. In Bengor there is another teacher training

F,

another mainly monntechnic college, Trinity in Curmorthen, is scheduled to survive. Trinity is the only remaining independent Church of Wales college. Another factor in its survival must be its development of Welsh language

must be its development of Welsh language courses.

The most startling decision of all is that the Polytechnic of Wales, formed front a merger of Glamorgan Polyechnic, simuld lose its teacher training. The polytechnic ends its submission to the Department of Education and Science with the comment that though any threatened institution will be able to produce valid arguments against its closure, no other institution in Wales can produce more velid arguments than the polytechnic.

About its standards there can be no doubt. Recruitment for the certificate of education stopped after the 1975 entry and in September last year it attracted the largest number of teacher training students with two A levels in Wales. There are 20 degree courses, whereas, say the steff, most of the other collegea in Wales have only one, the BEd. The polytechnic's own BEd received validation from the Council for National Acedemic Awards at the first ettempt.

college, St Mary's, now part of University College of North Wales.

The proposals for Wales bear few signs of the national plan which has been imposed, however roughly, in England. Only one institution will have the 600 places considered to be the minimum size for a reacher training unit and unther majorly from eacher training unit and durther majorly from eacher training unit and this does not prevent the institution fitting into the system.

The closure letter, in addition to the general criteria, mentions "the college's nutential rule as part of cacher training in the principality". The BEI degree is the only one in Wales validated by the CNAA, but this does not prevent the institution fitting into the system.

Another pussible reason for the pulytecomes fate is geography. South Woles is well supplied with colleges. Hesides the polytechnic there are the Givent and South Changan institutes of higher education. But more of the explanations seems entirely satisfactory and the college is strongling honorfully. Another pussible reason for the polytechnic's

string ling hopefully.

Staff at the West Glamman Institute of fligher Education are fighting equally hard to save their enliege. They point out that teachers from West Glamman wild have to travel to Commarthon or Cardiff fur Inservice training.

The former codlege of education was one of the oldest in the country and the stery institute opened on September I last year.

The college would have greater problems than most of the English institutes of higher education if it inst its teacher training. The BEd degree is the orly one which is varidated at the moment though attempts are being made to get BA degrees validated. There is a Dipilic hut this would be difficult to sustain which students are admitted without two A levels. About 50 per cent of the September entry will have two A levels.

About 50 per cent of the September entry will have two A levels.

About 50 per cent of the September entry will have two A levels.

Addits, says the roger be expected to performent in the annual reasons.

The college has begun to raise its entry standered and this year will be the last in which students are admitted without two A levels.

About 50 per cent of the September entry will have two A levels.

Addits, says the roger become at the many properties to form:

Commarization for Economic vision and Development in and Development in the and Development in the annual reasons.

The college would have greater problems and the for configuration for Economic vision in the fact of the second in the policies ultimated to because of the second in the policies ultimated to because in the second in the policies ultimated to because in the second in the policies ultimated to because in the second in the policies ultimated to because in the second in the policies ultimated to because in the second in the policies ultimated to because in the second in the policies ult

Adult service

A dynamic odult education = is essential to enable sedes, inclividuals to adapt to the

up in 1970 and just separated to Swodon's adult fewere participating in seed in that education. During the period 23 per cent at a dult a week of the west Germany's and life of West Germany's and life of the United Kingdom's because the regularity.

for participants in voteti tinn us a porcontage of the

spnradie fashlon without to any explicit public services of activities could be strong activities could be strong agreements or alongue the support of specific activities to be national promise secondary education programmas.

Pinally, comprehens grammes of adult education developed as an internal services.

developed as an interest of broadly conceived of broadly conceived systems, relating to economic and cultural

the nations involved, in the nations involved with the possibility in the possibility in the poper favours. But it is past history yields no groptimism.

Learning opportunities in available from HMSO. Price

Adults, says the cont be expected to perform to the personal role units is sufficiently knowledges the the external forces effects own lives end commune to he able to choose disch their own courses of scien

have already been overtaken by the latest research.

Professor O'Nelli's conceptual breakthrough hos been to escape from what Isaac Asimov now calls "planetary cheuvinism" — the almost universal assumption hystelence fiction writera and futurologists that the human future in space (if any) lies in the colonization of the Moon, Mars end other existing planetary bodies. His programme will put us into hollow habitate that we will build ourselves (inhally from luner material) rather than out to plenetory surfaces.

Construction of the first habitat, Island Oue is space between Earth and Moon could begin within 10 years' time. By the late 1990s it could be completed end nopulated with 10,000 people. The growth rate of adults both in quantitative self-tiunal terms had remained until 1960. In most coming then climbed sharply have with the spectacular secondary and masses. secondary and posser-education. The result wi today, despite the relati-uf public funding, adult di-was no longer serving a saltrity but a significant persitive but a significant persiting the last reveal that during the sant up to 1970 and just began

It could be completed and populated with 10,000 people.

Island One is likely to be based on a hollow almolulum sphere almost a mile in circumference, has with a skin only o few inches thick. Sunlight will enter through glass windows near after polee. This shell will welgh about 170,000 tons (150,000 tons of oltminium and 20,000 of glass).

Inside will be about 400,000 tons of soil, vegetation, buildings and all

20,000 of glass).

Inside will be about 400,000 tons of soil, vegetation, buildings and all the authorition necessary to maintain a high standard of living for the independent of soils. The outside of the or means of shouting rocks across

nningy (where Professor O'Neill is a visiting professor this year) out of old plumbing, photofiash capecture and ordinary copper wire. An acceleration of 35g (35 times gravity) was obtained compared in the previously calculated figure of 29g for a sophisticated version using superconducting wire and attognotic levitables.

The latest target is in have a mass driver 100 metres long works

In is easy to get carried away by Professor Gerard O'Neill and start describing him as potentially the most important figure of the late mentical contains.

The energy model of the late against cosmic radiation.

The energy model of the late against cosmic radiation.

describing him as potentially the most important figure of the late mentifeth century.

For the 30-year-old Princettal University physicist is apparently the first person to hare converted the idea of largo-scale space colonization from science fiction to a plausible programme using current life following has grown rapidly in the tist following has grown rapidly in the tist following has grown rapidly in the tist following has grown rapidly in the Unived States alnoe the first publication of his ideas in 1974. Scientists from universities, industry and the National Aeronauties and Space Administration (NASA) ore becoming involved, and the number of researchers working directly an projects Inspired by Prufessar O'Neill has received and the number of researcher working directly an projects Inspired by Prufessar O'Neill has received to bucket will release its contained and of the professor's needled of Januarban Cape, £5.95), which has just been published in Britain, have already been overtaken by the latest research.

Professor O'Neill's conceptual broadchirmough loss been to escape from what Isaac Aslmov now calls "planetary cheuvindsm" — the latest research.

A model for living

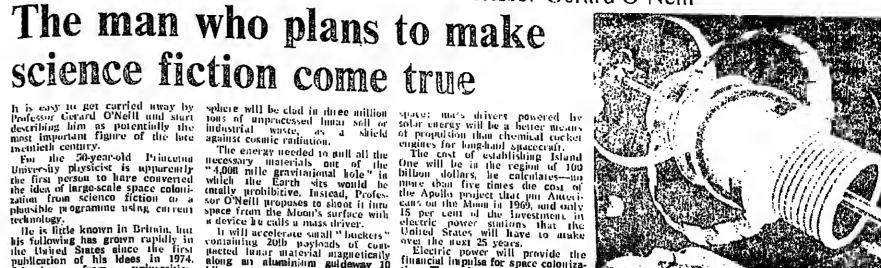
In the So-year-old Princettal and musters and should be designed to the construction of the door of the containt of the projects of the projects

Clive Cookson examines the futuristic ideas of Professor Gerard O'Neill

A model for living

Until this year the mess driver was technically the most speculative purt of the apace colonization programme, end Professor O'Neill oppears to skote over it slightly uneastly in this bonk. However, studies sponsored by NASA have recently put the concept on to firmer theoretical ground, and the flust working model was fired successfully last month.

It was constructed by students at the Massachusetts Institute of Technology (where Professor O'Neill is a visibility professor this year) out



Island One, showing agricultural oreas and radiators for waste heat. All energy for habitat, ogriculture ond industries is dorived from

continental onted States, percuse average aunshine intensity is eight times less on Bardi timi in space, and solar cell conversion is only 16 per cent efficient, compared to 80 per cent for micro-Island One will rotote about twice a infinite to maintain Earth gravity round the equotier. At the polea and

round the equoting. At the poles and slong the axis of rotation there will of course be no gravity, so human powered flight and weightless sox are likely to be popular recreetions.

An eccess corridor will lead from the aphere to its attached agricultural cylinders, where four croms a year will grow in perfect elimatic conditions, and industrial areas, where zero gravity will make many menufacturing processes much eeslar. The prospect of enormous profits will induce governments and institutions to invest in space colonizetion, he hopes. The financial return alrould make the project more appealing than Apollo, where billions of dollors were spent putting o landful of men on the Monn, with no foresceable economic guin.

Professor O'Nelli believes passionataly that space colonization must be an international effort. His bonk includes lineginary letters to the

Looking up, Island One's inhabituals will see a "sky" of upside down houses and gardons on the other side of the sphere — which could be axtremely disconcerting for people llabla to eleustrophobia (ur thosa who want tu ambatho nude on the lewn).

includes lineginary letters to the folks back home from all-American folks back home from nll-American couples living in early space hobitots, and me of them (from Edward and Jennle to Brion and Naucy) shows the way ho bropes plings will develop: "Legally all communities are under the jurisdiction of the Energy Satellites Corporation (ENSAT) which was set up back in the 1980s as a multimational profit-making consortium under United Nations treaty. ENSAT keeps us on a fairly loose rein as long as productivity end prufite remain high—I don't think they want another Boston tea perty. There ere almost as meny different kinds of local government es there ere a netional groups within the

sclection and training procedures.

After two or three years in spece, pionoer settlers will probably be able to buy n ticket back to Earth, either for a period of loave or for permanent repairintion. A vast spaceship, built at Island One ouddriven by a aniar powered mass driver 20 kilometeres long, would take them on a 20-day voyoge to a transfer station in low Earth urbit. From there they will return to Earth from there they will return to Earth in a "spece sluttle" of the sort currantly being tested by NASA. Outward travellers will of enurse

era netional groups within the

research laboratory in California te

Will Britain join in?

use the same meens of transport.

Though our immediate motivo for colonizing space will be to build orbitling solar power stations to solve the Eorth's energy crisis, Pro-

solve the Both's energy crisis, Professor O'Nell believes we shell go
arraight on from there to solve our
population crisis.

It will be technically possible.

Wiffin 30 years of the completion
of the first habitat to send people
into space at o faster role than the
Earth's population growth, he calculates. Assuming only slowly increasing industrial productivity and we could remove 200 million people a year from Earth, without serious environmental demage, and settle them in comfortable space babitats (each of which will probably contain 10 million inhebitants by then). Of course, exponential population growth cannot continue for ever thereofter, but if we want to go on multiplying in apace, the Solar System has the resources to support many thousand times more humans than live on Earth now.

A decade or two after Island One

beams that is now the basis of olmost every high-edergy facility in the world.) olmost every high-edergy facility in the world.)

So far thera is no participatinn by scientists outside the United States in the space colonization programme, but Professor O'Neill says ho would be delighted if British universities got involved. At this stage it is up to them to appruach USRA, though, not the other way round.

humans than live on Earth now.

A decade or two after Island One is established it supset the United Moon as a source of raw intetrals end start mining the Asteroids, the thousands of rocks end inliniplenets orbiting the Sun in a broad belt between Earth and Mars. They are stored in the space colonists are almost certain to abendon the Moon as a source of raw intetrals end of the Moon as a source of raw intetrals between Earth and Mars. They are stored in the space colonists are almost certain to abendon the Moon as a source of raw intetrals between Earth and Mars. They are stored in the space colonists are almost certain to abendon the Moon as a source of raw intetrals between Earth and Mars. They are stored in the Space colonists are almost certain to abendon the Moon as a source of raw intetrals between Earth and Mars. They are stored in the Space colonists are almost certain to abendon the Moon as a source of raw intetrals between Earth and Mars. They are stored in the Space colonists are almost certain to abendon the Moon as a source of raw intetrals.

Muny pages of Professor O'Neill's book are devoted to glowing descriptions of life in space: Howalian climate, spacious living accommodation and priveta gardena, a profusion of beautiful and beneficial plants and animals without pests, lavish entertoimment facilities (like ballet at one-tenth gravity)...

Island One will rotote about twice in The availability in the space in abitats if high paying jobs, of good living conditions and of better opportunities for children analy attinuiote the emigration of a considerable segment of the Earth's population aven if nvercrowding on Earth is less serious then now oppears likely.

In the long run, because of the availability in appece of unlimited cheap energy, of abundant materials and of efficient combinations of attroctive living area with nearby industry, I suspect that Earth-based industry will be unable to compete economically with space-based industry.

"If so, then, os has occurred many times within Earth's history, people will follow the availability of jobs and that will neun emigration", the

Tourism in space

Professor O'Nell believes the good life end generous pay will more then compensate for the paychological difficulties of living in space, giving the authorities many more volunteers for the early liabitate, then they can necept. They will then be able to implement rigorous selection and training procedures.

After two or three years in space. He gues on to create u vision of pollutinu-frea cavironnicat, would be ruther intolerant of Eacth's dirt and noise, and that, too, would encourege cleaning up the remain-ing sum cos of pollutants here.

use vision of an industry-free, pastoral Eorth, with many of its spectscular scenie ereas reverting to wilderness, with bird end animo populations increasing in number nnd with a relatively email, affluen huwan population, is far more attractive to me than the alter-native of a rigidly controlled world whose people tread precarlously tha narrow puth of a steady-state society."

Huwever, Professor O'Neill is very keen to emphosize that he is no Utoplan idealist. He contrasts the humanization of space, which will open up new social possibilities to be detarmined by the inhabitents, with the rigid social ideas that, he says, hove been a facture of listorical Utopian attempts.

The deliberately limited, Earthhund future that Professor O'Neill finds "abhorrent" will strike many

creasing industrial productivity and no revolutionary new technology, we could remove 200 million people as e safer and more a year from Earth without could remove them because them has a callafying prospect them. other people as a safer and more actiatying prospect then his expan-sionist alternetive—though no growth may be harder to ochieva than expansioo.

A realistic comperison of the risks of the two courses is fappossible. The professor can persuade us that the physical risks of his colonization programme ore accorteble, for exemple, by showing that space hazards such as metcorites, cosmic radiation and soler flares can easily be dealt with.

Whot we cannot enswer is the

psychological question. Could the human mind, which so often seems unstable in the relatively natural environment of Earth, cope with the totally artificial life of space? Could a million men ond women reolly live together sotisfoctorily in a sphere or cylinder a mile or two

ettempt.
Why is the polytechnic on the closure list? PROPOSED CUTS IN TEACHER TRAINING PLACES BY 1981 Northumberland Tyne and Wear North Yorkshire Humberside Yorkshire Merseyside Cheshire Lincolnshire WEST MIDLANDS Norfolk Leicestershire Cambridgeshire -450 WALES [-3,550 ₩ Herts Gloucestershire Oxford C Gwent w Surrey Kent W Sussex E Sussex Deyon

thin us a porcontoge of by force show that Canada autitue league table with 14 per out the league table with 14 per out the United Kingdon with the United Kingdon with the United Kingdon with the United Kingdon with the United Service of the figure of the figure of the County of the United Service of the Un 6,000, Canada just 3,000 per ouly 2,036.

The report malotales has a reasons have brought he increase in the growth rate of the consideration to predict the underprivileged. OECD says, e direct reasons on tupper sexpansion of upper sexpansion of A Section of the

> Exterior of a possible second-generation apace emmunity, with a fourmile diameter and 20 miles long. Living areas, agriculture, and industry, though located within a few miles of euch other, have separately chosen Peralture, climate, day length and gravity.

At present, however, the Universities Space Research Association (USRA), a consortium of 55 American universities with a head-quarters in Houston, is acting as a focus for the many stronds of research needed to get the project going. A task force and advisory panel are baing ossembled, with representatives of all relayant social actantists, as well as industrialista, trada unionists and investment experts. NASA's Ames research laboratory in California te closely involved.

Professor O'Naill himsaif will nbeloually be spending a lot of time guiding tha space colonization programme, but he is not placeling to drop his other scademic scrivities just yet. He has a heavy teaching commitment at Princeton next year and will continue to supervise his high persons where a program and princeton in the program of the program high-energy physics group working at the Stanford Linear Accelerator Centre. (He invented the storage ring technique for colliding particle

who feel they have

something of value to

and concern in higher

nation has far many of the univer-sity departments of education, but is there o viable size for such de-

partments and cart the very small units offer the necessary expertise?

Their staffs are usually cecrnited from selective schools for their sub-

Many teachers feel that the col-

leges with their long experience of providing for the non-selective part

of their countinear to BEd courses colleges have sufficient staff in cope with oil the professional needs of postgraduoio

students.

Many university terms are shurt, so that the actual emitted hours of

students bath in schools and tho department are u froction of thusa

experienced by their more fortunate

Why no scrutiny of university

departments of education?

tributors to the current Great valor of nan-verbal, visual community of the current of the property of the stripe on the single statement with stroot, it encourages social collesion,

seize on the simple statement without due respect for the subtler thoughts that lie hehind it.

The modern approach to linguistics that tends to draw parallels between that science and authropology is a schiedre one, in that it depicts longuinge as just untitler precisely structured activity in the whole range of structured activities. vhole range of structured activities undertoken by man the uniqual. This effectively demolishes the sacrosance rôle of language implicit in its more traditional objective study. Clearly, verbal communication becomes just one more set of signs

no the social landscape, un more set of signs in the social landscape, un more important than other "symbolic" languageo such as mathematics of, for Ibat matter, international rand signs, ludecil, it may even be less important, since these latter du at least heve the merit of heing luter-publicably, comprehensible. nationally comprehensible.

So far so good, and there is surely nathing healthier than the removal of language from the pedestal of involability an which its old objective order. tive rule had placed it. There is little to be said for linguistic fusi-

larity, and the realization that language ond society are inextricubly entwined can do nothing bur good for our cultural health and vitality. It is but a short step from this nutexceptionable dought to the suggestion that always the technologies. gestion that, given the technological sophistication of our world, most of the mental verbal tosks are beneath our dignity (or, more precisely, and this is what warries me, beneath the dignity of the average school-

leaver).
Tape reenrders and electronic cal-

Tape recorders and electronic colculators can parform all thoso
tedious little mental activities that
we expect school children to perform. Tolevioion screens and computers can provide all the information, in non-verbal form, that these
some school children require in
their everyday life.

But this, ourely, is where we go
wrong! While the rising culturel
ideology of our times, sensed and
accepted by the school-leaving population, moy not have os its core the
threa Rs of traditional cultication,
the fact reculos that the world in
which they have to find a pince
still organizes itself, for better or
worse, on traditional lines. whole the rising culturol ideology of our times, sensed and accepted by the achool-leaving population, moy not have os its core the threa Rs of traditional education, the fact regular that the world in which they have to find a pince still organizes itself, for better or worse, on traditional lines.

Depriving children of the basic tools of illeracy in a snejety in which some people—often the most lofhtential—have linguistic mattery of their fingertips, is to put them

ot their fingertips, is to put them at a serious disadvantage when it comes to deciding the future of that society and their place in it. The nuthor is lecturer in French. The proctical application of ele-

Professor Sir Edmind Leach recently wrate an article on the status of literacy in education entitled "Literacy he damned", which had the salutary effect of focusing attention on rarying attitudes in the importance of language in society at large, and in the educational field in particular, Yet there is a danger inherent in this approach—particularly when the results of sophisticated linguistic research are presented in such a simple and appealing way that contributors in the current Great

wherens the complexity of purely verbal signs has a divisive effect. The fact is andeniable, but just what does this surfal culiesion mutonnt in ?

Sprely the social, cultural, and perhaps even the publicul interests of any community are to be best served, not by reducing communica-tion—verbol or nun-verbal—to its lowest commin denominator but, on the contrary, by doing every thing possible to make linguistic richness and subtlety hyailable to

Cardigan

Aberteifi

Fishguard

Abergwaun

New Quay
Celnewydd

"The need to decipher a mass of

courses were facilities.

The recent special pleuding of Professor Bernbount (THES, James 27) and his saide ottacks on multiple content to the course of the public sector teacher fraining were quite unjustified. No one would denigrate the work of the university departments of education - yet in ternis of common humanity, lagic and equality of treatment, a similar exomination should take place

But I am disturbed that teacher training in the university sector

has totally escaped the agonizing scrutiny which it has suffered little public sector, for the James and other reports certainly did not suggest that university training

there, Far fram being scaled slown, havever, the latest proposals appear to move some 2,300 mittal teacher training places from the deprived

training places from the deprived public sector into the university sphere. And there are subser universities too ant only increasing the size of their postgraduata education departments but octually, without any scraple, edging into the field of initial teacher training by aftering three or four-year BAs which include a licence to teach.

Over a dozen universities already offer first alegrees of this kind, chier liA or liSc. Has the Secretary of State any control over these courses? Are the universities, as one would expect, hading recruitment? Or ore they developing such coarses to compousate their institutes of education for the loss of work which has come as a result of the cloour of area training The problem, therefore, dies in the douger of dislocation between, on the one hand, e voluoble ond exciting approach to the science of linguistics which seeks to integrate longuaga and society and, on the uther, a simplistic reduction of communications. of the cloouro of area training

or one closuro at area training orgonizations?
It is not inncontation for universities, which initially resolutely confined the IEH and its teaching solely to the calleges and their staffs ore now with under house affering in-sorvice IEEE of their own alongoide out.

own alongolde an equally rapid development of Mild courses.

Surely the BEd is hardly an area in which the university has teaching (as opposed to examining) expertise? If this understandable, thereis a surely has the course of though somewhat shunclessly oxpansionist policy continues, it can only bring obout that very clash with the Government which the universities are alleged to fear.

Secretary of State, let alone other noliticians, local ond national, along with officiolo of the DES, reduit-The author is sub-dean of the faculta of education at Shefficat City Polytechnic.

Keeping up A page open to all those team moral say on topics of interest in research

Mrs Shirley Williams recently a cized senior academics for the cishul standard of their applicable for the partment of Education Science research money (This March 18). If she is worked at how standards she should also be look at the tway profession. The Secretary of State for Education and Science has shown courage
in rambatting the entrenched loral
upposition to changes which have
prevented the rationalization of
teacher training since both McNair
and Robbins. Only lit two areas,
when faced with potential opposifloit from the churches and tha
universities, has she departed from
the begin of a national plan.

Let no one dispute the need the
protein loss for a national plan. o book at the way project as it

With the expansion of both se problems and the size of the integrations and them, large-scale parties than them, large-scale paresearchers has become some place; and so have the inefficer.

So little planned attention by
to the definition, organization i
mointenance of the different of
team members should play the
not uncommon for projects by opart at the seams as a min personal conflicts.

Yet is it that surprising gra-looks through any back as a the conduct of social reside, chances are oiln that out e-counter anything on problems morale. It is not generally made on a critical factor in brailing cussions of research members more to the point, b is regarded as any kind of land

For the most part, resemble jects in higher education test plough guily on under the action assumption that the man sonal relations of its members "sart themselves out" or & down given time"; scarce; if fessional approach. But the b over urgued that research it such a sciences was a policie activity, with its high comes collegues in the public sector.

The tenebling profession twos in its criticism of the accurately its onticareer structure for a accurately its onticareer structure for a and u strong tradition of pair

brevity of pastgraduate courses and olreody there are more graduates completing their training in the public sector than in the naiversities. Is it not time that the whole field of pastgraduate tearher training courses was examined?

It is implementally that the DES is ovaluating pastgraduate courses in one if the pulsianding charzitles of large-scale social ast—anaterrism. This is a this securingly either endors acquiesced in by both residirectors and research with alike; which is a pity, proximate of the anatoms of which its contract of the anatoms of which its acquires of the anatoms of which its second contracts of the anatoms of which is a pity proximate. ovaluating pastgraduate courses in sume 20 institutions in the public domain, yet has no right of acress to university departments. If the work there is so successful, why do they not these in view of the amounts of money which are confined is they not throw upon their dours in the first three three transfer dours to the first three three transfer three transfer three transfer three transfer trans

Why have so many of the new universities, aufundler with ATO functions, entered this field, and why are so many departments trying to upont primary teachers the field productivity is likely to the field of the fie onirses?

If the Secretary of State is

Whether many project distri-have nor heard of the sens unable to get up a small working party to answer these and other if they have, do not understand is not clear. Either may to have not implemented it, but my relied on the informal process of human interaction either a cstoblish a chance eguilibrian extensity. questions about teacher training in the universities, perhops the universities thomselves caulif toke the failetive before it is taken owny o project team or to test it and Conscious structuring of the relationships between learn met there in order to maintain feel David Turner hers in order to maximize director and research worker is all too rarely considered.

One of the main stumbling bler One of the main stumbing because in a more organized approach at the part of t a conporative venture

While universities are mind house research projects in their apologies, for corrections to the provious sense, of fered it to the content of the provious sense, of fered it to the content of the provious sense, of fered it to the content of the provious sense, of fered it to the content of the provious sense, of the provious sense, of fered it to the provious sense, of fered it to the provious sense, of the provious sense, of the provious sense, of fered it to sense chaptes for the provious sense, of fered it to sense, of fered it to sense chaptes for the provious sense, of sense, the provious sense, of fered it to sense, of sense, the provious sense, of fered it to sense, the provious sense, of sense, the provious sense, the sense chaptes for the sense chaptes of sense, the provious sense of sense, the provious sense, of sense, the provious sense of sense, the sense of sense sense such that the provious sense is sense, the sense of sense sense such the provious sense of sense, the sen

Student grants: no worse, but little better

the recrision of the parental contribution scales as important grant itself. This year's settlement continues the break from the precisions. It rollmans "d" and "e" the parental contribution scale has been recrised to take some account of inflation, instead of using inflation to shift more of the cost of students and the precisions.

In rollmans "d" and "e" the flatter in "a" and "e" are adjusted for changes in the rollar of money since 1962 (using the retail price injext). For the income has increased by Coat and increase maintenance on to the students and heir parents.

Since the Education Act of 1962 set up the present mandatory system of undergraduates' grants, inflation has affected in three ways the has affected in three with the amount parents are expected in pay. Firstly, tising money incumes, with inadequately revised assessment scales, have made the parental contribution o higher percentage of income. Second, the amounts parents recover from the inloud Revenue by the allowances have changed. by tax ellowances have changed.

Third, as the income on which parents are assessed is earned in the tax year ending six months before the academic year starts—an averall time lag of 18 months— the current income from which parents pay their contributions may be substantially above that on which

substitutially above that on which they are assessed.

My figures showing the change in the parental contribution since 1962, in the accompanying table, take, for simplicity, a student living to indepings at a university other than London or Oxbridgo who is assumed not to have earned emagh to reduce his parents' entileatem to tax relief, and to have two parents and a younger have two parents and a volunger

The rising percentage of students and receiving the full "parental contribution" to their grants makes the revision of the parental contribution. This domestic to the parental contribution. This domestic to the parental contribution. This domestic to the parental contribution.

were gaining—there was also the were gaining—there was also the were gaining—there was also the cost of keeping the student in the cost of keeping the student in the recall price index). For the income affixed for changes in the radae of maney since 1962 (using the student) and change is from the parcutal contains, the change in the value of maney since 1962 (using the student) and change is from the parcutal contains, the change in the value of maney is from the parcutal contains the change is from the parcutal contains and the par

they would be not of pocket if they fed the student throughout the vaculus. At the next level (£3,1771 the parental contribution is—in real terms—less than one seventh of what it was, but the changes leave the parents soon £20 worse off in

The next two levels (£4,765 and have two parents and a volumer brother or stater aged over 16.

Columns "a" and "b" af the table show what parents were expected to contribute in 1962-63 for various levels and residual locance, in other words that remaining after deductions for various items, such as mortgage payments, other children, and sa on. To turn residual income and sa on. To turn residual income into gross incume thens, such as mortgage payments, other children, and so on. To turn residuel income into gross include at today's figures, one needs to add, for most fomilies, about £1,000 April 13, 1973 found the mast signs 2,000 74 (2,000).

Column "e" shows how much the parants needed to find for the amount demanded from the purents PC = parental contribution has become a olzeuble find the find the purents ore not sufficiently wealthy to produce it with 1,000 32 enso, that our 1971 surrey (THES, 1,500 74 and 12,000).

Whereas, at the £6,354 level, the amount demanded from the purents PC = parental contribution

provincial antiversities at that date. As one reguld experi, the natural received from the Lem loss game down substantially where the purental contribution has risen most.

Where the student receives o minimum award, the decision to pay fees next year, plus a small grant, gives the student £155 more than die 1977-78 equivalent of the 1962-63 grant. Only same £60 to £90 of this is transfer af tax relief from

they need to par, the minimal they need to scrape ingether is virtually prohibitive. But, as those with minimum grants generally suffer for less financial strain than the part of the rice-choncelors if they were suffered to the strain of the rice-choncelors if they were suffered to the rice-choncelors if they were suffered to the rice-choncelors if they were suffered to the rice-choncelors.

The main argument that can be put forward by this generosity to the sans and daughters of the relatively wealthy is that, when their parents reluse to part, the numural they meed to section muchos is confiste and to actionary.

denty is unsatisfactory. Given the need to provide extra founcy when no more is available from public finide, any solution must take the founce from the founce kind at ham (or partial ham) scheme financed from outside the public system.

That we continue, nevertheless, in have annool neoptiolians of grant revisions which ignore the need for more fandamental change is probably the to the natifiedes to the vacations for the purpose of streams of the parties to these of which they are latended, namely ocademic study.

The unimate losers are not only

discussions.

The National Union of Students is strongly opposed to any kind of looms scheme, and believes the only acceptable solution is the ubolition of the parental contribution. As Britain has chronic economic difficulties, and as extra payments to loss not under nutters werse.

The ubinitate losses are not only the students, who are not only the students, who are not only for educated mappower, the condity as a whole. At least we should be grateful that the 1977-78 settlement has not under nutters werse. culties, and as extra payments in his not made matters worse.

Soms paid to stoden by 1.c.a. (less fees)
1977-78 1962-63 Residual. 1962-63

Hesidual Parcotal Income Contribution

The scientific message contained in a parable of anti-science Ben Jonson's mime thes not figure

ben jonson's name thes not that reprominently in the history of science. Indeed, such events as his celebrated and protracted femi with the architect Julgo Janes—whose belief in a rollonal order in architecture. Balend him allocates to the belief in a roilonal order in architecture linked him directly to the founders af the Rayal Society, pursuing a similior order in nature—provides evidence for cluims that Jonson's action was directly opposed to that from which the scientific revolution was to energe. At one level, The Alchemist of avoid the plague, John Wurdence to support a churse that evidence to support a churse that could certainly be interpreted as evidence to support o charge that Jonson was against selence. For as a lesson on the cose with which men can be duped into purting with their money by use of a few long Larin words, some unintelligible formula, and perhaps the sight of some strange-coloured liquid ionson paints on occusing our scenical finger at the embitious claims of the early celentists.

Scientisto must have been on utactive target for a satirlet akified in using the ambiguities of illusion is after the "human nature" that busarb. In Volpane, chiucidenally enjuying a successful run at the National Theetre, Jousna is concerned with

David Dickson discusses the RSC production of Ben The Other Place, Stratford

house to lucrative use while its
numer has tempararily left town
to avoid the plague. John Wundvine's Subtle, the occomplice recruited to masquerade as the
olchemist, and Susant Dury's Dall
Cummon, "their collecture", prove
as volatile in their shifting characterizations as the elements whose terizations us the elements whose transmutation they claim to be able

Junson weaves a complex plot by choracter).

Presenting the alchemist in a variety of guises, and uses each to satirize a particular profession. For the clerk, Dapper, the alchemist bisoriaus of science, for dample, conjuros up tho queen of the heyo recently argued that the magisfairles who can give him infibite the traditions of the Renalisance luck in betting—the seventoonth wich emists, although not lending contary equivalent of a win on the directly to exemple the moving of the pools; for the miseconist Abel the sense in which we now interpretable the pools of the content of the c Junson weaves a complex plot by and the National Theory, portraved in delightful at the Nickulas Grace, in the context of a sire in the context of the Schmidtle Covers of th

ages in save his skin by confessing all, hasdly fixing up his ansterwish a bewildered bride, and betraying his accomplicas. Unlike the denouement in Volpane, victory ublantely resis with the most skilful illustants, and deception rease its powerd.

Such a plot cont hardly have holped the reputation and prestige of the severateend century scientist. By firmly charocierizing alchemy as By firmly charocterizing alchemy as fraudalent chicanety, Jouson places a large "before" notice oraund the neck of those who would claim access to the secret powers of nuture (the RSC seems to have been slightly curried away by the scenticism, using at one point a pireuological hust—o minetcenthicenthy invendon—as one of the olchemist's devices for ganging choractet).

In one sense, Jonson's ottack on

John Woodvine (Subile), Sissan Dirry (Doll Common), and fan McKellen

half of the seventeouth century.

Jonson was, in fact, a great ideo of the smorolity of sociel relocation of lacchi. Like Josan, lious, On the one isand this allows practiced by main whichemists—even whether religious or escular—os the logithacy of same of their other, his one-dimensional characterides. Both saw "reasun as the ground of art", as Subrie desventis Prince, not as real neorle has prince and as real neorle has the content of art, as Subrie desventis Prince, not as real neorle has the content of art, as Subrie desventis Prince, not as real neorle has the content of art, as Subrie desventis Prince, not as real neorle has the content of art, as Subrie desventis Prince, not as real neorle has the content of art, as Subrie desventis prince and acceptance of the smorolity of sociel relocation.

The Alchemist religious this ideo of the smorolity of sociel relocation to the one issuad this subries. The Alchemist religious the subries of the smorolity of sociel relocations. On the one issuad this subries are religious or escular—os disgulated bids for power; on the one issuad the subries of the smorolity of of t



Order, please, in AFE student numbers

Peter Wagstaff

A number of important issues in the current debate on student number in non-advenced FE.

Solven outfieled emphasis.

First, there is the ineptitude of many exercises in data cullection. The only constant in successive expenditure White Papers has been expenditure White Papers has been in their applogles for corrections in their applogles for corrections to the much highter ruling on the pravious issue, offered in Thirdly, there are the implication the considerably greater increase in projections of foll-time equivalent projections will be home undersucted.

Nor has sufficient attention becomes the provisible increase in the porticipe rates the cultive university propulation will be home undersucted the cultive distinct projections will allow some possible increase in the porticipe rates that the provisible increase in the porticipe rates that the provisible increase in the porticipe rates that the provisible increase in the provisible increas

Browels' contracts. This, says be Lervell, suits both sides.
The FEC can choose not to publish any results it does not like; but it still has them for working information. And the institute has the right to go whead ond produce its lindings independently with a disclaimer fram Brossels.

So far, the lostinger on three programmic has centred on three

employment, regional developmen

tung traditional forms of higher ed

cation-all topics of key significance

A series of maps shawing the distribution of post-secondary institutions across Europe has been produced and a number of case studies af institutions." In the regions is shartly to be published. Among the compuses will be String and his intersection with the region is

interaction with its region is planned in the longer term by Dr

The institute is now embacking

The institute is now embarking an otheric arising out af a combination of two of its original research sress: a praject into non-traditional education and regional development. It is to be directed by Professor Danks Kallen af Amsterdam University. One essestudy, under Professor Gareth Williams, of Luncaster University, and Mr David Moore, of Nelson and Calne College, will deal with Lancaster.

The Times Higher Educetion Supplement (Landon)

Optimism over future of private institutions

America's private universities end caught up with inflation. colleges are managing to hald their own in campetitian with the public own in campetitian with the infinite system, according to a new study. And despite their commonly voiced complaints at a growing gap in the tuition fees they have to charge compared to the public sector, privote universities ore found to be no less competitive than they used

The report, besed on a survey of 100 prirate institutions, including all kinds except the large research universities, paints a far healthier picture of the private sector than has aften been given by the colleges themselves. It says private four-year colleges are stable in enrol-meet, finances and quality at neadenic afforings.

It also found that in the past 10 years the cust of attendance has not gune up in relation to the total amount of money a typical family has to spend. Charges for tultian, fees, board and rnams of privets institutions were about twice as much, the report found.

The report is the third in series of assessments by Dr Howard Howen from Claremont Graduate School, and Dr John Minter. The two earlier studies, covering the years 1969 to 1974 and 1974 to 1975, found private universities were in e stato of "steadiness without stoguation". But they gave a warning that lecturers' salaries were not keeping up with inflotion, and many colleges were deferring essential maintenance work

The new study, based on dats for last year, finds that the private sector showed a "slight improvement" in its ability to struct qualified students.

Ahagether, with the slowing than of inflation and a substandal—10 per cent-increase in revenue, some

of the financial ground lost fluring the last bout of inflation at 1974-75 had been recovered.

The report found no deterioration in the total amount of debt incurred the property of the second of the property of the second of by private colleges, but it warned that capital expenditures were still fulling, and depreciation end ob-solescence were taking their tall, There were a growing number of

needs not being mer.
Looking at the private sector's Looking at the private sector's enumeritive position visuavis the public sector, the report found it "fairly strong." Between 1965 and 1975 the average "dollar difference" between student rosts at the two types doubled from \$1,022 to \$2,099. At the same time, the percapita disposable income of Americans also doubled from \$2,430 to \$5,040. Thus the dollar difference did not change.

55,040. Thus the dollar difference did not change.

Figures from the College Scholarship Service showed that utivate tultion and fees were nearly four times those clarged in public colleges. But the report said that when oll the costs of amendance were taken into account, including transport and personal expenses, the difference was only about 25 per cent.

difference was only about 25 per cent.

"This difference, while still oubstantiol in dollar terms (1,700 to 1,800) is quite madest in relotion to total cost, which is of the order of 7,000 to 10,000 a year", the authors said. Much of the difference was made up by the far larger sums private colleges were able to make aveilable for student sid.

"These calculoloos suggest that the competitive position of private higher education is manch atronger than is often siloged on the basis of his or

There was a substantial increose than is often sligged on the bosis of the size of teeching steffs last of the so-called 'tultion gup' and year, with the average student-teacher ratio improving from 16.1 to 15.4 to 1. Salaries had again private sector."

Boston president calls for reassertion of excellence

"The only standard of performence the that can sustain a free society is characteristics. It is increasingly claimed, however, that excellence is tens et odds with democracy. Increes-ingly we are urged to offer a

rhis is how Dr John Silber, the outspoken President of Bostan University, begins an article in the current issue of Harpor's magazine in which he castigates what he sees ee a dangerous ecademic States es a bilingual netion es e egalitarianism in America today.

The flight from excellence is produced by performence alone.

States es a bilingual netion es e egalitarianism in America today.

The flight from excellence is produced by performence alone.

States es a bilingual netion es e egalitarianism in America today.

States es a bilingual netion es e egalitarianism in America today.

America west in foct inferior to every an eless and would be unable in complete on on equel bests if judged by performence alone.

He particularly criticized the movement to establish the United States es a bilingual netion es e egalitarianism in America escension.

The flight from excellence is produced by performence alone.

foundly philosophical, he says. America wes unique in the world would of a well-intentioned but as being n very lerge nation maininept concorn with equality of taining e single nationel language opportunity we have begun to with dialects that were easily reject envithing that exceeds any mutually intelligible.

reject enything that exceeds anyone's grasp."

As examples he cites the wer ogainst grading, which does not distinguish between excellence and adequacy, and the related phenomenon of grade inflation, which suggests all students are equally gifted and hard-working.

"Some people believe that the pursuit of excellence is essentially anti-democratic. This fallacy is most obvious in the commonly voiced charge that educational institutions with high academic standards of excellence in edmissions and, faculty recruitment are editlet", a term that for most recopie is redolent of special and uncarned privileges and suggests that these institutions are havens for

Dr Silber seid cells for the melatenance of standards were aften denounced as recist ond sexist, but are urged to offer a any a sexist ar racist cauld believe embrece to mere that women or nembers of minorities were in foct inferior to every

He particularly criticized the movement to establish the United States as a bilingual nation as a striking example, of this condescension. Until feconity, it enid

Canadians face jobs crisis

nent of university graduates has caused growing concern in the United States. But as the economy picks up the immediate crisis of applied arts and picks up the fundable c1433 of graduate memployment has cased. North of the horder things book far bleaker. Not only are many Canadian graduates having to accept very low-paid jobs: a large number rannot find joks at all. And with more and more students graduating each year and a sing-nant economy, the future for roung people in Casada is far from bright. The facts of the crisis have been starkly outlined in a new report by Storistics Conada on university graduates in Ontstio. The picture in the country's lorgest province is indicative of the trend all over

the country.

This year o record 67,000 students will receive degrees or dialounts in Ontario: 38,000 Bachelor's degrees, 7,100 Master's, 900 PhOs, 2,100 university undergraduate diplones and 18,900 community college dialounce.

linnes and 18,900 community college diplomes.
This compares with a total of 56,600 in 1974, when the provincial enemployment este was 4.1 per cent. It is now 7.1 per cent. Even those who gradunted in 1974, however, hove had a hurd time finding jobs. In that year 29 per cent of the "new" university graduates in the Isbour force were either memployed or corning less than \$7,000 a year. Among the arms and social science graduates the situation was even worse, with 58 per cent memployed or earning per cent intemployed or earning graduotes were undercouployed that very little. After a year in the work year, and nearly the same proportore alout one fifth of all that tion were earning less than \$7,000

Dons oppose

Dr Kissinger

may now withdraw from consideration.
Dr Kissinger was considering

the money was expected to come from Nelson Rockefeller, Dr Kls-

singer's long-stonding patran.

post for

In September, 1974, 29 pt cent applied arts and technology were also anomaloyed or making less than \$6,000 u year.

This proportion varied from about 44 per cent of visual communication and social science graduates in 10 per cent of technicians and terhau-logists. A year later a quarter of the CAAT graduates were in the A survey of those who graduated

In 1974 suggested that the market value of higher education was clearly less than students hoped. After a year in the market, their noemployment rate was still above the provincial average and there were serious underemployment

Statistics Canada considered starting solaries of \$7,000 tor litchelor's degree-holders and \$6,000 for CAAT graduates the minimum for jobs requiring post-secondary certification in 1974. Graduates working full-time and gerting less wars considered and gerting less were considered underemployed.
In 1974 17 per cent of that year's

A year later 11 per cent gor less than \$8,000. The largest group of underemployed—one third—was in the humanitles and social sciences. By contrast only 4 per cent of engineering and architecture students were in this salary bracket.

About o fifth of the 1974 CAAT

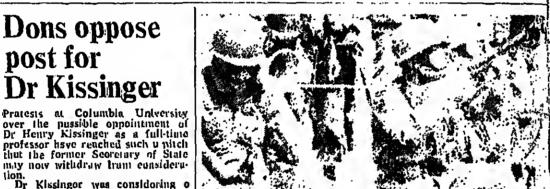
sciences, where 60 per cen .}

Since 1974, however, more more people have gone ho to while the lob market has be even nighter. About 44 per to this year's new graduates here, be education beyond actool, By the proportion will be more a Sil per cent. Ten years are into the comparable figure but.

Alregether this year shoes graduates will come on to the ky esilimates, as well as acorber 13: school leavers and dropout to l'uture projections shot data numol number of school letter vise to 213,900 in 1981, drope plant 194,700 in 1986—len t tha current level,

The inercase results from the wor linby boom generation ridectins reflects the dop inthe thirt began in 1960. But the pated drop will not help to situation much. There will many school leavers compared will or improve their will a left or improve their will a left or improve their will be the situation.

a job or improve their atwhy so many young per gone into higher educate a short time. A survey of survey of surrounder showed that the bummher 43 ner ceutage collunce their prospect of a near (as opposed to 3 me who said they wished be their knowledge).



Kent State insensitive

sity where four students were shed by National Courdsmen in 1970 while demonstrating against America's intervention in Camsiso objected to appointing Dr Kissinger on the basis of his exbuilt, have been camping in the spirit to prevent the construction of a new university building nearly. perdise.

Columble was proposing in selup e specially endowed elisir for Dr Kissinger costing between one and two million dollars. Much of

About 1110 students hare 12 trats in protest against the po-fur u som physical training mo, which would come within his in the memorial to the

The students actuse the with sity of "insensitivity" in both sit near the site. The units plans to take legal action to me the demonstrators II they but

Major campuses link to aid graduate courses for minorities

Indian students in their finul two indergraduote years is intended to stem a steady national erosion in new minority gruduate students.

While progress in the caralment of women has been made in many aroos, the cuphoric increase in the caralment of women has been made in many aroos, the cuphoric increase in ford University was one of the process.

while progress in the caralment of women has been avade in many aroos, the cuphoric increase in graduate upplications and admissions of fallority students generated by the impact of the civil rights to report an apparent of the civil rights around accordance in the impact of the civil rights around professional schools are the civil rights around professional schools are the civil rights around a professional schools are the civil rights around a professional school are the civil rights are the graduate test and the civil rights are the civil rights are the civil rights are the graduate test and the civil rights are the civil right movements of the carly 1960s, and swelled by the return of oldur students to achieve postponed educational goals, now appears to be first a gratuate division as aver.

with dislects that were easily mutually intelligible.

Attempts to require such things as bilingual ballots exempted a lorge graup of clitzens from a requirement, bilinerto expected at all clitzens—the ecquisition of some group of competence in the neitonal lens of the university of collifornic instance of the university of the univer

Nineteen of the lending universities in American have lumiched a co-aperative effort to recini unive of their own university students into groduate study programmes.

Starting this suring, the effort to reach block, Chienno I Mexican-American), Asian and American independent of the process.

Indien students in their finul two undergreeducte years is intended to in recent years the company of the process.

Spain goes to the polls next week for the first time in more than 40 years. Concrete proposals for educational reform are spectacularly lacking. Harry Debelius reports

Much ado about abstract values is beautiful'

By the time the new parliament is lascalled in July, the post-clection government has taken office and the summer holidays are neer, it will be restricted.

it will be rather line to do anything about education before the begin-ning of the influenceme, even on

democracy and social democracy.

Spain's naiversities are mostly understaffed, observed described by historical parties and continuous and confision, with a continuation of the part of smalle of the teaching staff. Both political parties have to endure yet another year of smalle of the teaching staff. Both political parties have endured the present of smalle of the teaching staff. Both political parties have consider of other from their attention to what they consider other from their attention to what they consider other from their attention to the education the needed to which guarantees can be a continuation of the present of the popular Alliance (AP), the meritaries the proposition of small probably thave to endure yet another year of the present operation to needed to which guarantees can be a continuation of the present operation of the reduction tis needed to which guarantees can be a continuation of the present operation of the popular Alliance (AP), the meritarion staff operation tis needed to which guarantees can be a continuation of the present operation operation operation operation operation operation operation operation op cities not but cred to menting eduweek's general election or have made short shrift of ac.

The elections, the first free poll-the county will have seen in more the country will have seen to mare than 40 years, can be enoughered with those held in haly just after World War II, in the sense that politicians ere talking a great deal more about "democracy". "liberty", "lascism" "Marxism" and "totallarianism than about specilie issues.

And, crea in the cases in which subtiles to the problems of educasolutions to the problems of educa-tion are proposed—particularly in higher education—they are usually offered more in the context of a particular political-philosophicul-echical framework than as answers to tangible problems. Political pomphileteers have moved into the vary toirer.

To make matters worse, many Spaniards seem to be unable to consider my political issue without getting emotionally invalved. Consequently they are frequently in-olerant of the views of others, regardless of the lip service—at less:—which they hove to pay to

One issue, for example, which One issue, for example, which probably need never have become one, is the greet dehete about whether schools mher than those run by the state should be alsolished. Some—but not all—left-wing erganizations are calling for the eliminstica of oil priviley-run educational institutions, and especially those run by religious organizations. The Cotholic Church, on the other hand, is odvising voters to give their support to parties to give their support to parties which forour state subsidies far such schools,

Australia

for new

campus

from William Purvis

Australia'o newest university has announced a self-selection schonic similar to Britain's Open University for admitting, mature-age students to its off-campus courses next year.

Instead, the applicants will get

samples of the course materials which they ran study at their leisure. During this time they will be able to contact staff of Deskin to

give outling to the first and with possibly even more political imerforence in campuses than before, while Spain's next leaders turn their attention to what they consider other immediate problems. neo-Francoist coalition led by ber-mer Interior Minister and former Ambassador to London, School Minnel Friga Iribarne touches briefly in his posters, slagans and speeches to sacial issues, such as concatant and better pensions for the retired, but gives no explanation of large in intentions will be one in of how its intentions will be put into practice. One can assume, however, that things would not be much different than they were under

The Spanish Communist Party (PCE), surprisingly, is at ilder in its approach than the socialists. The PCE wants more free state-run schools, but it would not abolish those operated privately. Presum-ply the state are privately presumthe very application assumption than education will be a priority for a gurernment which is expected to make the drofting of a new constitution his first job. Significantly, when the elections were only a fortnight off, the party which, according to the latest polls, is expected to win the mast sents in the new parliament, the Centre Democratic Union (UCD), had still not published its political programme. consilically. (Pomilical).

One explanation for the Com-nunist stand to favour af retuln-log privately run educational insti-tations is that the party has infil-trated the teaching profession to a similarity expense profession to a The UCD's problem is that It has virtually an unified policles since it is a combination of parties, federations, groups and individual opinion-moders with philosophies ranging from capitalist-monarchistromorphisms significant extent, particularly in non-state schools in large population contres.

conservative to accidist, passing on the way liberalism, Christian Spain's second most important socialist party or coalition, the political organization formed by the Popular Socialist Party end the Federation of Sacirust Pureles (PSP-FPS), headed by a lary prafessor who was outsted from his choir by the late dictator for political reasons, does include education on a plank in its platform.

This coalition under the leadent. This powerful centro coalition seems to have as its only amalgam white and orange posters every-

the state of the control of the cont references to education. The Issue is covered in the PSOE electoral progressions in these words: "Public

Self-selection Parties split over role of technology sector

SYDNEY

Deakin University in Victorio will adult up to 100 students aged 21 or aver on o first-come basis. There will be none af the usual selection tests or examination requirements.

DUBLIN

One major issue separation of the separation of the section of the separation of the section of the section of the section in the Republic of both less into a June 16 general election daminated increasingly by prices and memployment.

The government, for its part, has the section of the section of

into a June 16 general election daminated increasingly by prices and unemployment.

This is the nature of the relationship that should exist between the universities and the technological institutions operating at third level. One other pienk af the Opposition's education policy was that the upper limits for qualifying for third-level student grants should be raised. This, however, was precupted by the government last week when it reised the upper limit for the first time in three years. Higher Education Bill setting aut the institutional consequences of its policy decisions. It was enparently ready, at least in draft form, at the end of last year, but the transfer of the Minister, Mr. Richard Burke, to the post of EEC Commissioner in Brussels, and the subsequent appointment of a new Minister, eppears to have led to a temporary shelving of this Bill pending the tesuit of the election.

The institutions concerned appear

Think-tank where 'small

Europe's latest higher education

Europe's newest-and smallest- programme has centred on three higher education research agency major areas; youth, education and higher education research agency is now in its second full year of activity. The Institute of Education of the European Cultural Founds. tion is based on the compus of the to the Nine. University of Parls-Daughine, It has a suff of the and an glans to increase that nonline. "For us, sould is beautiful," says De Ladislav Cerych, the institute's director.

Dr Cerych, n veteran performer on the stage of the internstional education hodies (he has been with Unesco, OECD and the College of Europe of Bruges), says the insti-tute has a simple nim: "To be a SUCCESS ". He admits that It faced more

problems than most in its earliest days. Must difficult was to convince peaple of the need for yet onother organization devoted to higher edu-

As well as Unesco, with its spec-As well as Unesco, with its specialist agencies such as the Interautional Institute of Educational Planning and the Bucharest European
Centro for Higher Education, there
is OECD and its prestigians Centre
for Educational Research and Innovation. The EEC has its directorate for education and resourch and the Council of Enrope in Strasbourg hus au educution section whase Committee for Higher Educution and Research is perhaps the most prodigious of all in its production of designmentation.

European noiversities and the Coun-cll of Europe wants work done on educational change in south Medi-Sa why the institute? Dr Cerych Sa why the institute? Dr Cerych identifies two churocteristics not shared by its rivals ("calleagues" might be o better word, as the original intimetions of distrust hove now been surgely replaced by on atmosphere of mutual cooperation); they are flexibility and independent terrancen countries, Although the institute is, abviously, primarily concerned with Europeon affairs, Dr Cerych says that the American dimension commute ignored. That is why it was felt appropriate for 10,50, which has inself researched European problems, to be associated with the institute from the close. But he combinated

to be associated with the institute from the stort. But he emplosives that the governing council now consists solely of Europeaus.

Dr Corych is outlous, toa, that the institute should be peu-Europeau, in its outlook. Contracts with the EEC, for example, stipulate that the work will not be confined to problems affecting the Nine.

He readily admits, hawever, the difficulties of engeging east Europeau universities in meaningful colleboration. The biggest stumbling block is that they invariably want to wark only with afficial inter-governmental bodies—and that The comportness of the culcrarise The comportness of the chierprise meens that plans and projects can be reedily changed (the researchers would that necessarily ngree!) and freedom from occountability to the sensitivities of governments allows the institute to be both critical and

Farmally, the institute is an onlanarmany, the inscitute as an onlanamous arm of the Austordam
Europeon Cultural Foundation (latePresident; Princo Bernhard). Cofounders with the ECF were the
EEC Commission oud the Intornational Council for Educational
Development of New York.

British connexions ere strong. British connexions ere strong.
President of the institute's candel
is Lord Briggs, Provost of Worcester
College, Oxford, and Dr Ralf
Dahrendorf, Director of the London
School of Economics, is a council
member. Mr Sam Crooks, formerly
with the Open University, is assistent to Dr Cerych, end Dr Gny
Neave, from Edinburgh University,
is n center research fellow.

is n center research fellow.

Additionally, Mr Anastesias Christodoulu, the OU Secretary, is a project consultant, Professor John Eggleston, professor of education at Keole, is chairman of the editorial board of the institute's learned foundal Paragagest European and Mr Stuart Machine, editor of The Times Educational Supplement, is o member of the editorial board.

side to comment and well as the programment of the programment of a new Maintenance of the programment of th

معاديب وما والمنافق والمنافق والمعارض والمعارض والمعارض والمنافقية والمنافق والمراوي والمراوي والمراوي والمراوي

Attempts to get mound this prob-lem by associating Unesco's Euro-peeo Centre far Higher Education with cest European research pro-jects are being mode; the govern-ing council includes a Pole and c

Hungarian; and the annual review of Europeon higher education devalopments which the institute is planning will contain o chanter

8

HIGHERT DUCKTION SUPPLEMENT New Printing House Square, London WCTX 8EZ, Telephone 0f-837 1234

A quarter century of change

Turenty-five years ago, M(ss Flo-quite on the same level as the uni-rence Horsburgh ("the face that versities, today there is very close launched a thousand cuts") was cooperation." Ainfister of Education. There were 13 degree giving universities in the United Kingdom. There were 100,000 British university students (full-time and part-tima), 9,000 full-time miversity teaching staff, and university teaching staff, and universit

sities, more students, more teaching staff and, after a lushion, versity, oll will be well. Alus, the degree and the degree and the aniversity become more money. Next year, there will degree and the university become less Spurrow. The Chancellor of Wales is a recent graduure of Trivity College, Cambridge.

versity, oil with be well. Alus, the degree and the university become less technical and turn and to be like all other degrees and universities.

After all those extra universities and all those extra universities.

Has anything else changed in 25 years? In those days, culleges of advanced technology were a gleam in the eye of vorious committees which were concerned, as the Percy Report of 1945 pur it, that "the Has anything else changed in 25 which were concerned, as the Percy Report of 1945 put it, that "the position of Great Britain as a lead-ing industrial nation is being ea-dangered by failuce to secure the fullest nussible application of science to industry and this foilure is partly thic to deficiencies in edu-cucion." A Rayal College of Tech-

cucion." A Rayal College of Teelinologists was in the air.

A Mr J. C. Jones, from the Polytechnic, Regent Street, London, was patiently explaining the nature of technical education to a House of Commons Select Committee. It led, he said, to national certificates and mollonal diplomas. Ills apperience was "that where students are able to the working-cluss, black or female youngster is virtually non-existent."

public rums of the princess Royal was Chancellar at Leeds University, and the Duke of Edfaburgh presided over the University of Wales. A man called John Sparrow had just been elected Vurden of All Souls.

The property of the property of the property of the president of the pres

and all thuse extre sindents, the social composition of British univeris no higher than in the universities.

Who is to say that is a hund thing for anyone but the universities and the polytechnics? Perhaps the 16 or 18-year-old school-leaver in Newland or Shoels knows very well what he or she is doing. Recent work by Gareth Williams of Lancuster University suggests that their decisions are based on sound and county

make a useful best for a later seconding to the political complex. The political complex of the

LETTERS TO THE EDITOR

Civic rights in Germany

Sir.—The THES has corried to recent years reports, articles and letters alout the erosion of civic rights which, under the operation of the herofseechote, has affected tenchers, student-teachers and others in the German Federal Re-

Your readers might be interested to know that some of us at the University of Leeds have formed an ad hoc committee which proposes to "tein" with Frankfurt University and to keen closely in touch with developments under the Bernfsoerhote as they offect teachers at the infeersity and others. We intend to publicize any such

small measure of assistance as me can to the people concerned. It may be that other lustitutions of higher education in this country would wish to "twin" with one or other such German institutions. We

German collengues would welcome support from this country. Yours faidifully, G. BENTON. Lecturer in Chinese studies,

R. HARGREAVES, Senior lecturer in German, R. MILIBAND, Professor of polities,

M. MILLIGAN, Senine lecturer In Philosophy. I. SCHWARZMANTEL. I. D. SMAR'T,

R. M. WHITE, University of Leeds.

Inquiry into universities?

Sir,--As a university teacher conceil's dearest wish, an honorant corned for the reputation of my gree from a British university. profession, I am greatly disturbed by the various press reports appearing during the past week which have called into question a number of interestry practices and procedures. Instity the permanency of the First, malpractice in promotions

senior lesturer and trader is alleged in a letter in The THES uf May 27. Secondly, a highly malesirable procedure in appulatments to chairs

is rerealed in letters published by The Goordion of May 21; a patenrial candidate was javired to name esternal assessors for the chair in which he had an interest, and he and another candidate (for a second chair) were given very strong encouragement to hope for appoint allegations of as serious 12, ment even before the posts were as those outlined obove 10. advertised.

Thirdly, in an article, in The Observer of May 22, Vincent Brome drew attention to the lack of accountability enjoyed by university there not a case for the take reachers for the way in which they spend their lengthy vacations, and concluded that "free murallective privilege for one profession is surely not good enough ".

Finally, there is an allegation that ionorary degrees may be awarded us bribes; The Sunday Times of May 22 reported that "a hig has deal in Iran was once elinched when Leyland promised in meet the key offiEditaburgh Elis IDE.

gree from a British university.

To all these reasons for conception is standards. You are besorted by an standards arise from recent pess in the first water standards. You are besorted by an standards arise from recent pess in the collection of high 25 continue and the are hesonted by ideology. He and she are hesonted by ideology. They ideology. We sat make nur successors lated by ideology. They sat she in most fine in the she she in the properties and she in the satics in the least make nur successors lated the saying ting and she are hesonted by ideology. They ideology. They ideology. They ideology in the standards to interest the save in the interest in the she saying in the save in the save in the save in the least make nur successors lated the saying in the save in the interest in the save in the interest in the save in the interest in the save in the save in the interest in the

ir incumbent upon him to to offering an independent c. Since Parliament is not emport to inquire into university diffi-

Silence on these matters salt taken to imply, if no consends concept is long and consplicated, at least contempt for the east but a summary must be risked. It of that public which is larger to was invented in 1796 by Destrut de sumstitue for the financing of Tracy, to describe a "science of the contemptation." aniversities. Yours faithfully,

VIVIAN SALMON (Mrs),

Language policy

Sir,-Universities, polytechnics and

part scores on the four past

The paths and pitfalls of ideology as an ideology

Europe and Nurth America, is the mast commonly quoted example of an ideology? Answer: Marxism.

It is now more than twenry years since an authoritative voice amounted the "end of ideology." We were now living, it was said, in a "most-industrial suciety" [save that joke for the interies), in which ideological systems and ideological that toke for the nineties), in which ideological systems and inleological telutics were Irremediably out of date and Irrelevant. Husty analysis might conclude that the words were a signal for a generation, not only of intensified ideological conformation by a foundation and expense. niout of a committee of inquit mation, but of emphasic and exhausing DES or the CVCP, if only the sundy of contemporary ideosome buildy independed but a logy.

The history of "tileology" Tracy, to describe a "science of bleas" which must be distinguished from the old onetaphysics. As a brach of science it was firmly placed within biology or, more stelly received.

strictly, zoology.

But aimost or once n different sense, which will be familiar to nit has political helrs, was introduced and appularized by Napoleon Bonopane. An ideology was a contrived system of ideas which "ideologues."

ture ond society; ideas and institutions; bellets and class situations. Ideologies and historical situations. Ideologies and historical situations ideologies and historical situations. Ideologies and historical situations. Ideologies and historical situations. Ideologies and historical situations ideologies and historical situations. Ideologies and historical situations of the entermand of a substitution of an interest in the mutually denunciatory of the other hand, in West interest in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually denunciatory of the other hand, in West in the mutually in the more indirectly, from certain of kinds of mathematics and genetica, such analysis offered to supersede the comparison of relatively formed the comparison of the structural linguistics of the structural suppo

the "new left" movements which began in the sixties in Just these regions, and which included what is usually collect the student revolt, is that cultural and educational processes and institutions were at mean the centre of attention, so that even the savage war in Victorm was, at least in part seen and for was, at least in part, seen and (at a distance) contested through theor. in any event, in a wider spectrum of opinion, shifted concern with cultural processes from peripheral to central, or at least centrally symptomatic. The expansion of higher education in the same regions skifted both education and cultura into the centre of politics.

Ideology, as a term in this place.

Ideology, as a term in this phose, has become critical, Previously there was a loose coexistence between the two most popular senses: a sys-tem of ideas imposed on experience, and a system of ideas characteristic of a class or group. Some quite fair-minded people could see these processes as general and, in that sense,

equivolent.

Education was then seen as, in its best sense, o "lending-out" from the condition of heing imposed upon. Il characteristic ideas and be-liefs were still crentually orrived at, the process was conscious and grounded; stock notions and pre-judices had been exposed to the rigours of full knowledge and free finally.

Command Scientification of the continue of the

naralise least hased on minority some conomic but also political.

of the class. On the contrary, it was the systematic constitution of minds and classes.

minds and classes.

In its purest and must extreme form, this version of ideology is, in practice, comparatively rare. But for some years, questions which were formerly discussed under the headings of class or culture have been increasingly discussed under the heading of ideology. The pure structuralist formulation, which gives ritte to this inclusiveness, is thus none powerful in setting the terms of the argument than in more specific positious. specific nositious.

specific positions.

When actuol current theory and practice is closely examined, it is evident that the specialized inclusive scose of ideology coexists with a range of other theories which come to limit its autonomy, and especially its intiversality. Thus Althusserian Morxism, which has done most to popularize the new sense, retoins "last-instance determination" by the economy, which can be taken as overlaping with can be taken as overlaping with more familiar Morxist pusitions on ideology and closs.

There is a retained contrast between ideology and "science", which is often read as if it were the uld contrast between "false conscious and "science" and " ledge", though it is meant in fact, to be different. And the widest sense of dealogy as a set of dominant meetings and procises can be taken us equivolent to Gramsel's difficult concept of "hegemony", though Gramsel's fundamental outschment to historical analysis is promortible with pure constant.

Thus obliough the title of Thus offlough the title of the inquiry has shifted dramatically, there is as wide a range of fundamental positions as at any earlier polot. What is new is the intensity of the inquiry, though et its present stage, which is very much midterm, a large part of the work is expectation and approximate the companion of the part of the work is term, n large part of the work is expository and amounties, and the comparative lark of opplied endy-sis lars limited theoretical clarifico-tion to predominantly conceptual definition of the "text" (here the comparations are controlled to the "text of the controlled the contr

thous—and af course the ownership ond control of cultural and calcations, figure 1 in the fibres of a specific ideology.

Those who staved to listen (they other British Institution. In recent observe, certainly, what had happened to ideology as a term. It was now no integer, or more strictly was now no integer, or more strictly.

Most of the ponors in this volume in the present stage of expectation and course for the ponors in this volume.

Over the years, and through several integral to change of siyle, the centre has continued more namissis of what is much being called ideology litten any other British Institution. In recent of the present that had of metallic and calcation and control of the papers of course, the present stage of expectation of o system.

Over the years, and through several integrals of siyle, the centre has continued more namissis of what is pretable) sociol relotions, now presented electrically presented that they be acted selectrically presented and thurs, by a kind of metallic control of the papers of course, the present stage of expectations and through several to idealogy as a term. It is allificult disciplines.

Most of the ponors in this volume

ser and Poulanizas; e raview of varying Marxist positions on ideology ond the "artistic text"; and an examination of Marx's and other Marxist ("humanist" and Althussorian) positions on individualism.

Photography as text

Pepers like these are pow being very widely written, in what is at its best a learning process and at regression of course, continued. But the special complasses, and of course, continued, but the special complasses, and of complasses, and of course, continued. But the special complasses, and of course, continued. But the special complasses, and of complasses, and complasses, and of complasses, and of complasses, and of complasses, and compl



could see Lukács on proleturian consciousness running for cover; the appailing possibilities of the child and Wilson as Lacan-type university becomes a quick longe of Chautelan becomes Gramscian hegemony.

photograph) us un assembly of inscribed signifying practices. Everything could be tione with that photograph in that way. But every Studies: 10: On Ideology, from the Court of the Contemporary Cultural Studies at Birmingham University.

Over the years, and through several changes of siyle, the centre has contemporary and through several lightly variable (and varyingly intensibilities).

occupied with the intensifying theoretical arguments which affect its illificult disciplines.

Most of the ponors in this volume read like seminar briefs, and as such are useful. Stuart Hall, talkie anost of the other contributors, brings historical analysis to the development of the leading concepts and theories. There are then analyses of Lukács, Gramsci, Althusser and Ponlantzas: e raview of the control of the leading concepts and theories. There are then analyses of Lukács, Gramsci, Althusser and Ponlantzas: e raview of the papers, of course, do me exclude that kind of reading, shough at the present stage of exposition and annotation very fow are open enough to emphasize it. And this, I think, is the heart of the current argumant. The relative distance imposed by theoretical review permits the assimilation of scleeted evidence to the most diversa position. Nons and procedures, under the single little of "ideology", which seeme to me now to mask rether than to clarify the most urgent and

The plural emphasis is agalu wel-come, though the eventual thrus; of the argument is to demonstrate the "coexistence" of different position —summarized os "equality" one "equality of apportunity"-and it is then not clear whether these were merely litstorically fused that confused by the Labour Party or whether, us the furnills; element of their analysis would indicate, they ore necessary parts of a "dua repertoire".

repertoire".

It is at such points that the ideology of ideulogy, in its current theoretical phase, comes into question. In these essays there is on evident tension between empirical historical sunlyses of systems of idea; and their suclai sources and consequences and, on the other hand, models of ideology as coherent end totalizing (masking) systems, which can be discussed in terms of texts and codes, with metaphors such as "repertoire" from formal elements of play.

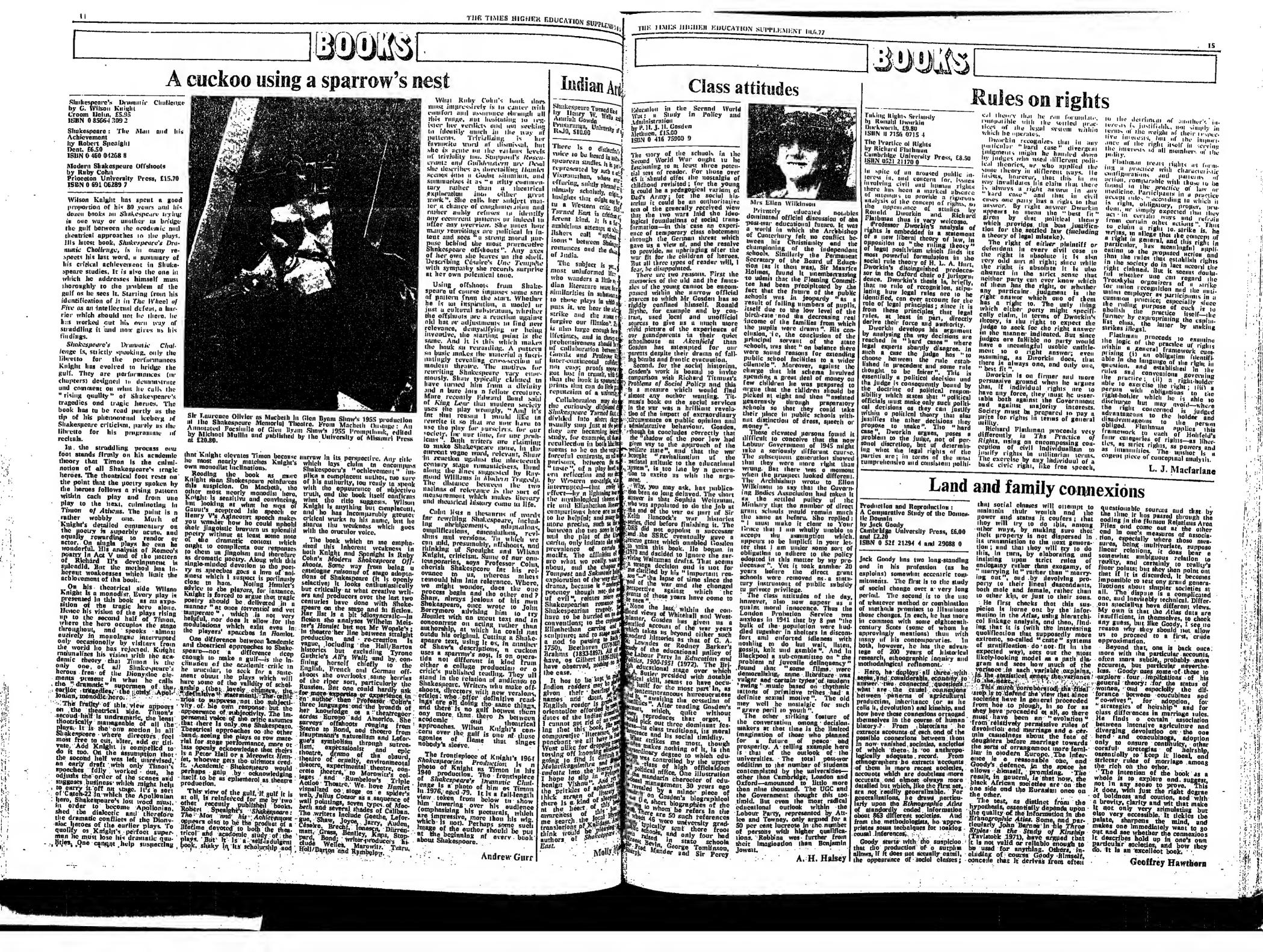
elements of play. In much recent theoretical work, including most of the assays in this volume, the latter mode is dominant and social relations and social moveand social reintions and social move-nents toud to be seen through the procedures of a laind of textusl-snaiysis, for which an already-selected, and thus reciprocolly-confirming, version of history is the imarginal) text.

These relatione and movements are "seen through" also in augustar

than to clarify the most urgent and most serious theoretical and practical choices.

Whot would have been a series of telipleces to each of the papers about the cover, which tappears to any declared and substantial alternity them. (Actually, knowing the make positive position and policy. And this artical wigouts of the cover, in the cover, which tappears to any declared and substantial alternity them. (Actually, knowing the make positive position and policy. And this artical wigouts of the control of the cover, are two casays from significant political intervention. ing this) are two casays from significant political interven-







From Bob Cranky to Jack Spring

to got behind the institutional records, the material evidence, to the inart reality: what it felt the in the inart reality is in the industriblism and deprecating the people.

When o Methodism was infused in their mulness the change from Bob Cranky to Juck Spring, and the Juck Spring in the industriblism and deprecating the people.

When o Methodism was infused in their mulness the change from Bob Cranky to Juck Spring, and the Juck Spring in the reality of Industriblism and deprecating the people.

When o Methodism was infused in their mulness the change from Bob Cranky to Juck Spring, and the Juck of Industriblism and deprecating the people.

When o Methodism was infused in their mulness the change from Bob Cranky to Juck Spring, and the Juck of Industriblism and their mulness the change from Spring and their mulness the change from Spring and their mulness the change from Spring and the Juck of Industriblism

The Collier's Rout by Robert Colls.

Ceoon Rein, 16.50

Saciety itself is created by crises of power, class and hore multiply defined, but well and hore surjec crisis tokes, and hore surject crisis tokes, and hore of universal tokes tokes, and to the number of universal tokes tokes. The crisis tokes and tokes tokes tokes, and hore surject crisis tokes,

Where workers' banners, in offling of crimsums, enteralds and guiden tussels had once really proclaimed a crusade; the large row bunner was a plain statement of appeasement. For the uniner, the crunky enckiness was an impossibility and the luck Spring hope a shuttered myther. . [They] mily wanted work. A sad camedown, and the one no helped, os Colls shows, by the kind of literary Marxism of the The words of 1839 was a collection of the modern Fred and the filly accepted British (2).

Labour history between the wars

Essays in Lubour Ristory 1918-1939 edited by Asu Briggs und John Saville Croom Helm, £7.95 ISHN (I 85564 239 8

Anyone who like myself, was in-troduced to this third volume of Essays la Labour History through that its contents hear only slight resemblance to whot was expected. The promised essays on the labour movement ond society in the (nier movement ond society in the (nier wor perind by Asa Briggs; on John McLean, Marxism and notionalism by John Simpson; and on the Many-Turner talks by John Lovel do not appear at all. Nevertholess the nine contributions reflect something of the precious of this parion, with no preferce of being same of the salutary exposition and on the falter and t

bound together by anything but the labour morement between the labour morement between the spects, the subject is a naturally altractity one. In many important respects, the changing formes of the "genultely-seeking the uniterar perind reflected tho uncortalories, frostracions and hopes of o country desperately engaged in adjusting to the economic, suching and policical royuges of twar and policical royuges of the complex and policical royuges of twar and policical royuges of the complex and the full policic sherification and policical proposition of depression and unemployment benefit and policical strain with the constraint and policical proposition of depression and unemployment benefit and policical strain with the constraint and policical proposition by the constraint of the policical straints and policical st

reading.

Rath essay is sampulously researched and religration, and analyses a welcome addition to the growing ilterature on interwal human history. Together there provide a useful historyal reflection on the current illicoma of the labour movement—how its official radurship can encourage an earmous belluf in the ability of arganized workers to other society without fastering the publicable extraprogent claims which proved so self-defeating in the post.

W. R. Garside

Society and religious change

Church and Society in England: Henry VIII to James I edited by Fellcity Heal and Rose-mary O'Day Mocmillan, £5.95 and £2.95 ISBN 0 333 18524 2 and 18525 0

In recent years the socia-religious history of early modern England has attracted the ottention of a great mony historians, with A. G. Dickens, Patrick Collinson and Christopher Hill muong the most programment. nas attracted the offention of a screen many historians, with A. G. Dickens, Patrick Collinson and Christopher Hill among the most prominent. General sorveys of the subject, such as Cloire Cross's excellent Church and People 1450, have appeared within the last patronage in its vorious forms and nechanisms, is one of the chief concerns of the voluone. Rosemany O'Day, a leading authority and the subject, underlines the pervasive but fragmented nature of ecclosiostical year. There are recent appeticated tive roles of Crown, bishops, and

excellent Church and Feople 1450.

John have appeared which the last year of There's are regard experient specified properties and explores, the respective of the comments of

their subject, and as always cale existence of innovation and tradition laborative ventures involve drawin "Religion in Provincial Towns". laborative ventures involve drawing backs as well as advantages. But on the whole what the volume co

on the whole what the volume lacks in unity it makes up to range oud diversity. All the essays ore well worth reading and, in line with the general practice of the series to which the book bolongs, they usefully place new research in historiary phical porspective.

Patronage, in its vorious furns and mechanisms, is one of the chief concerns of the volume. Rosemany O'Day, a leading authority un the subject, underlines the pervasive but fragmented nature of ecclosiostical patronage and axploras file respective.

Patronage, in its volume. Rosemany O'Day, a leading authority un the subject, underlines the pervasive but fragmented nature of ecclosiostical patronage and axploras file respective. Fellety Heal follows Christophec and patronage. Two of the other essays in the

tions of the royal supremuce, and rightly acques that conflicting ex-poctations of the Crown enterlained by churchmen and lake contributed in the breakdown at Charles 1's government. No otodorn transment of church

No otodern transment of church and suciety, however, is likely to be content sololy with "the view from ubove". Historians, with Christopher Hill and Kelth Thomas in leading places, ore new keen to penetrate the moutal and social environment of popular religion. Two of the essays in this volume foll into this cutegory.

Dayld Palitace commants on the uneven import of the Reformation and popular reactions to it in the

Orthodox |

The trend towards inparliamentary governmen ported by the Frenchez but the compulsory was French Eust with the press English and Protestant Cast twhich fullawed from the sunght, and one which are lasting sense of inlust resentment. Lated Durang the French Canadlass no and in the reaction which multiplication and ultranous supported our mather Of Professor Handy, who was Hulian Theulogical Semina York, assures us that now this is changed and thanks sinus are less and less as in religious terms, and les charries afficially advant anvalism and hillogusius, is and first that he is distributed by relationships religious and nationalism

The reader will people be prised to discuser at the discuser at the discuser at the last the bunk that he last have Prutestant hogemony, and the emergence of Roman Cambia

that the intrinsic interest of the life the interest of the life therefore not quite the intrinsic interest of the life the intrinsic interest of the life the intrinsic interest of the life twill carry renders through the most complicated turts with perfectly balance the history linta trouble. There is a fair through and processant the country which the cannot be estimated with confident to putting the custology and Cunudion, though in solutions to putting the custology and Cunudion, though it is the consulted with confident to putting the custology be consulted with confident to the point of view of the presence who want in the stroomer interested by compronents.

Bernard Jones

Geog stats

Statistics in Geography : A Practical by David Ebdon Basil Blackwell, £5,50

the third year numbers for the book; the third year numbers much no pro-physics undergraduate, and the pro-tessional estreatemen who wishes to understand the end in results of cas-thology and black lunle physics with ant having to grapple with Christof-icl symbols and the full glucy of the Einstein field equallous. The undergradante will have to cope with a feir emount of algebraic manipulation in places, but the subject matter has been well chosen and is well presented, and I imagine that the intrinsic interest of the hubject will carry renders through the most complicated and a with



notices of the land ide the

Black holes

Printiples of Casmology and Gravitation

ISBN 0 521 21061 5 and 29028 7

I see two audiences for the book:

by Michigel Berry



Two early public library book plates doting from the turn of the rentury. From Books for the People: An Auntimed History of the British Public Library by Thouas and Edith Kelly, published by André Bentsch at £15.00

Cambridge University Press, £7.00 and £2.50 ISBN 0 631 16880 X

The last ilecade has seen considerable odvances in cosmology and the study of "black holes". General relativity provides the apprapriate framework for illicustrational tests for geographers. This is a vest improvement on the dearth of such books a decode ago, hut the problem facing the nothers to the problem facing the nothers to the properties of the problem facing the nothers to sudents. Authors must therefore decide how much mathematics to include, whether to concentrate mainly on operational procedures, the initial base of the reader and t This is the lujest output of what has become almust a growth industry: the production of intraductory

> grung; exercises, with answers, will be approved by many; and the probability tables are easy in use. The contents enver the usual hasic The convents enver the usual hasic latroductory theores, but with a broad range of non-porametric tests and a lengthy final chapter on descriptive spotial statistics. It is intertunate, however, that the furnitla for chi-square (pp 62, 64) and the power function regression equation (p 101) are wrong, and that a number of discrepencies occur between text and figures.
>
> Also, the incorporation of traditional Also, the incorporation of traditionol toin tossing, dice rolling, black onl white balls, and horses kicking Prussian soldiers, rather than appro-

Reviewer, I suspect that it geographies have not paid enough attention to graphic end of the control singularity of the kerr solution, the exposition of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the control singularity of the control singularity of the kerr solution, the exposition of all super that the discussions of the control singularity of the

Starting with the cell

Au Introduction to Developmental All Infranction to Drye Hisbogy by Joan McKenzie Blackwell Scientific, £4.25 ISBN # 632-07820-0

tion to developmental biology is to arouse interest by directing "the students' attention as soon as pos-sible to features in their own develappreach to rettebrate develop-ment, comprising a build-up from basic cell structure via o surrey of epithelial, connective, muscle and ocive tissues and the early development of Amphioxus, die frug, die chick and the human to placentotion end orgon formation.

development, congenital abnormally the myclobilist is generally conties and terralology, embryology and sidered to be committed to the evolution, and helariour and learns are strongly considered to the grand region of the second discounters. ing. These short chapters are inter-timer from the haemocytoblast esting and informative and should (which is better called the muhiindeed stimulate the impliffing potential stem cell). The use of the mind to pose further questions, Further reading is suggested at the end of each chapter.

(which is better caried the multiplication of the mind to pose further questions term induction (pages 141-42) to describe the result of cell interested of each chapter.

Unfortunately, it is malifiely that this book will be widely used as a class text. Precious pages are sible to feature, in their own development and in admials and plants with which they are fautiliar". The result is a mainly unorphalogical approach to rettebrate developof the dynamic interaction between ancleus and cytoplasm revealed by modern techniques, such as ouclear transplantation and somatic cell hybridization, is not conveyed. The section on meiosis (in which there is no mention of crossing-over and genetic exchange and where it is stated that "each cell in the founde organism has two identical sex chromasomes XX)" would have been better placed in the chapter in gametogenesis. Few the end organ formation.

The chapter on organogenesis, which excuples 55 of the book's 215 pages, is an excellent and useful sunfourly af an important topic, to which little attention has been paid in numer paperbacks on development. Subsequent chapters deal very outch noise briefly with genetogenesis and fertilization, the oestrons cycle, growth and ngeing, cell differentiation, regenerotion end repair, twins and multiple births, immunological aspects of the contact in the formule necessary in the formula space with the statement (page 241 that the first statement (pa

and enzyme induction in bacteria is olso misleading as it is not made clear that the same mechanism probably not involved in bo

Finally, I must conclude that the author was mistaken in not con-fluing his book to vertebrate development. The omission of two rather weak chapters no plant and inverteweak chapters no plant and inverte-hrote development would have per-mitted the loclusion of major topics inexplicably left out, including the concept of the stem cell, and the role of germinal cytoglasm in the carly origin and separation from somatic tissues of the germ line. Hawever, the most surprising nois-sion is a reference to the dromatic progress in research on mommalian sion is a reference to the gromatic progress in research on mominalian development which resulted from Minta's and Tarkowski's technical hieakthroughs in creating allophosic (chiomerie) mice and more recent technical lunovations. This is the uge of the experimental embryology ut mammals.

Michael Balls

A sedimentary history

Geogrehocology edited by D. A. Davidson and M. I., Sluckley Ducksvorth, £14.00

Genarchaeology" is a term coined o describe the study of archaeological sediments by methods of physical, chemical and biologleol unalysis, including some examples them is intended to illustrate the rings of date that a close examination of our whether the assumptions and docisions of the number color vide or conflict with the render's rumpeleuro and militudes.

The present contribution has outle to commend it—formut and illustrations are clear and attractive, with computation soparoted from the luxt and a number of highly effective three-illustrational diograms: exercises, with answers, with techniques of analysis, the

with techniques of analysis, the simily of constal nod lacustrine onvironmetts, terrestrial environments pursued within a framework of archaeologically derived flata.

cour between text and figures.

In the limited of consulted with could specify the consulted with the detail of the consulted with the description of various methods that the could recognize the consulted with the detail of the consulted with the consul

Stanley Gregory | more positive archaeological result

might come from a more positive archaeological model; to designate constal settlements of the sites of "strandloopers" (a rather allscredited term) is limited, as is the designation of the site economy as "mainly fishing and food collecting" judged mily from that tool types. One drawbook ossnelated with an exclusive concentration on

Information.

In the third section of the book, the papers by Kirby and Kirkby, and Davidson each deal with the processes of deposition and erosion in tell sites, and provide important sources to ony archneologist working on these or other mounded sites. I feel slight recervations about Davidson's interecce of periods of about dominant at the Shagrol tell in Greece; we would recognize the Greece; we would recognize the content of the con

In balance

Trends in Applications of Pure Mnthematics to Mecbanics cilited by G. Fichera Plinum, £19.50 ISBN 0-273-00129-9

designation of the site economy as "mainly fishing and fool collecting" judged nuly from flint tool types. One ilrawbock ossaelated with an exclusive concentration on a constal zamo is of lesing sight of complementary infand settlements with may have been occupied for ruther more of the year. This section also has one of the few papers in this volume concerned with "aff-site" sediments, where Delama Suith describes the altivial history of the coastal fringe of the Tovolicre of Suithern Italy und the changing potterns of settlements. The reader right wish to refor also to the twork of Jarman and Webley in the volume Polacocconomy (edited by E. S. Higgs, 1974) who have also studied this acen. It is a disappointment that Geourchneology aloco not more fully explored the volume apparach; the sodimentery record archives of form the sodimentery record formation.

To the third section of the book, the papers by Kirby and Kirkby, and Davidson each deal with the processes of deposition and erosion in the letters are residulated and Davidson each deal with the processes of deposition and erosion in the letters are residulated and based on the papers by Kirby and Kirkby, and Davidson each deal with the processes of deposition and erosion in the letters are residulated and based on the letters and based on the local with the processes of deposition and erosion in the letters are matched to focus what luterest pura mathematics. It aims to describe und prodict the behaviour of idealized matecinis under chieston and prodict the behaviour of idealized matecinis under chieston and prodict the behaviour of idealized matecinis under chieston and prodict the behaviour of idealized matecinis under chieston and prodice the province of the papers. This section of edvanced content years much activity in this cyclic the behaviour of idealized matecinis and prodict the behaviour of idealized m

Appointments wanted

Other classifications

Announcements

UNIVERSITY COLLEGE OF

NORTH WALES, BANGOR

DEPARTMENT OF SOCIAL THEORY & INSTITUTIONS

Appointment of Director

of research project into

the delivery of social

services in rural areas

Applications are invited from parsons with appropriate

WILFRID LAURIER UNIVERSITY

Department of English

Notice of Vacancy

Send laliar of application and cutriculum vitae to the Cheirman of the Salaction Committee, Dapartment of English, Wilfrid Lauriar University, 75 University Avenus Wasi, Walariso, Ontato NZL 3C5.

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

INDUSTRIAL SOCIOLOGY UNIT

SENIOR LECTURESHIP

Applications are invited from social adentiata (an anginaaring background would be en adventege) who would contribute to important new davelopmenta et imperial Cellage, concerned with teaching social actence is angineers and sciantiels, and with inter-disciplinery research. Some research end/or industrial experience is dasirable.

Salary on Senior Lecturar Scale £6,443 to £7,951 plus LA. and U.S.S. banatite.

Futihar details may be obtained from Professor Doroth Waddathum, Director of the Industrief Sociology Unit, Imparist Callege, London, S.W.7, to whom applications thould be made not later than 30th Juna, 1877.

will be considered a delinite easet.

Apply balote Novembar 1, 1977.

Duties wilt begin July 1, 1878.

Universities continued

Classified Advertisements Index

Appointments vacant

Universities Fellowships & Studentships **Polytechnics**

Technical Colleges

Colleges and Institutes of Technology

Colleges of Education

Colleges of Further Education

Colleges and Institutes of Higher Education Colleges and Departments

of Art Research Posts Administration Overseas

Adult Education Librarians General Vacancies

Courses Holidays and Accommodate

Awards

Personal

Exhibitions

OXFORD CENTRE FOR MANAGEMENT STUDIES

and Social Aspects of Accounting

group for the study of accounting processes. Applicann the following rescarch proposals,

tu £5.627 nlne USS.

Applications to : Dr. A. G. Hanwoud

Kennington, Oxford OXI SNY

FINLAND in ENGLISH

LECTURER N DEPARTMENT

HEAD of the DEPARTMENT OF CLASSICS

selection and select will take up file/her duties on July 1, 1978.
The appoints will take up file/her duties on July 1, 1978.
The appoints will take up file/her duties on July 1, 1978.
The appoints will take up file/her duties on July 1, 1978.
The appoints will take up file/her duties on July 1, 1978.
The appoints will take up file/her appoints and file appoints and file appoints of the appoints

UNIVERSITY OF MANITOBA

Applications, and remaindeeds the dealers of colors of HEAD of the DEPARTMENT OF ENGLISH

The Department contrasts have \$9 facility transfers. The enterested constitute and short a tenance position in the population of the approximation has been sailled as period of 4 to 5 period with the possibility of integral flame and video will be exceeded socially with qualifications and experience. The approximate will require to short outlies on fully 1, 1979.

Applications or nominations should be sent to Dr. F. G. Stambrock, Chairman, English Hoodakip Solection Committee, Fisicher Arque Building, University of Manilobe, Winnipsg, Canada 837 2112, and must be reselved by September 15, 1977.

THE UNIVERSITY OF

THE WEST INDIES

PLANT BREEDER IN

THE DEPARTMENT

COCOA RESEARCH

RESEARCH FELLOW/ RESEARCH FELLOW

RESEARCH FELLOW/

JUNIOR RESEARCH FELLOW

FELLOW

The senier poet roquites previous experience in cooos broading: for the other previous experience in cooos or senither lise crop desirable. Suite include breeding and selection for yield and resistance and coops collecting expeditions in the Amezon besin. SALARY SCALES: 1977/78: Senior Research Fellow: TTS28,27: 10: TTS38,891: pa. Research Fellow: TTS15,489 to TTS18,971 to TTS29,799 ps. Junior Research Fellow: TTS15,489 to TTS18,974 ps. FSSU. Unium-ished ecommodation if aveilable sin 19 per soni at turnished of

to 17818.974 ps. FSSU. Uniurnished eccommodation if evaliable at 19 per soni ar turnished of 124 per cent. or housing ellowence of 20 per cent of pensionable salary. Up to five full as onomy peasages on appointment and or normal termination. Study and Traval Orani. Dataled application naming linear ratersos to Secretary, UWI, St. Augustins, Trinidad, es soon as possible. State of posta particle of posta sant to ell applicants.

UNIVERSITY OF CAPE TOWN

LECTURER IN

GEOLOGY

Applications are invited for the shove, one vector, post in the Oopniment of Genicy. Appelement, according to qualifications and experience, will be made on the safary scale R6300v9360—R9180 per annum, plus a pessionable allowance of 10 per sent of basic safary.

Preference may be given to opplicants with experience in economic geology, but applications are else levited from geologists with other research leterals.

One post at the level of SENIOR

JAMES COOK UNIVERSITY OF NORTH QUEENSLAND

Applications are invited for inflowing appointments: LECTURER IN

Applications are invited from parsons with appropriate assamic qualifications with provan reaserch shifty and axperience for the post of Director of a Research Project Into the Dalivery of Social Services in rural areas sponsered by the Weish Office and the Department of Hasith and Social Sacurity. The research project has the full cooperation of the Gwynedd and Clwyd County ELECTRICAL ENGINEERING: CLEUTRICAL ENGINEERING:
Applicants should have a specialist interest in the area of communications and perticularly in antennes and microwava. The possession of a higher degree and evidence of relevant industrials operation with industry in the general area of propagation, alo., would be a distinct selvantage. The appointer would be required to facture at ell levole and to intitiet and support rescarsh within the Ospatiment. Councils.

The person appointed will act as the Director of e tasearch team, comprising two research easistents and wilt work in cooperation with the staff of the Department will work in Cooperation with the start of the Department of Social Theory and institutions.

Stary will be on the scele, £6,443-£7,951 per ennum. (Ranga III of the national selery attructura for University Research Workers) which is equivelent to the salary scale of a Senier Lacturer. The eppointment will be for four years.
Further particulars of this appointment may be obtained them the Assistant Ragielrar (Personnal), University Collage of North Wales, Bengor, Gwynedd LL57 2DG, and applications (two copies) giving detaile of aga, education and experience logether with the nemse and addresses of three referees, should be sent to reech him not fater than 25th June, 1977.

BEHAVIOURAL SCIENCES

(Social Psychology): (Social Psychology):

Applicents obsuld pessets a ph.O. degree in social psychology and have an interest and experience in tecching statistics to undergraduates. They should also have research and teaching interests in other states, each as personality and social policy. As the Dapartern of Bahavioural Salances is a multi-desciptionary Osperiment, applicants should have a brood sequentance with the behavioural solences so that they can contribute optimally to the Deportment's sollvilles.

Applications close 2nd Saplember, 1977.

LECTURER/SENIOR LECTURER IN EDUCATION:

Applications are invited from specialists in Raneleasnes Drama (including Shakaspeare) end/or Saventeenth Century (pratarably with an Interest in Million). An appointment will be made of an essociate or full professor, with rank and solary depending on qualifications. Successful exparience in university freching and substantial publication are assential. Since the eppointment involves the possibility of elaction as chairman for a linea-year larm (ranawable), administrative exparience will be considered a delinite asset. IN EDUCATION:

Applicents will be involved in the development and so-ordination of the involved in the development and so-ordination of the involved in the development of the involved in the

Applications clase on Sith July, 1877.

Saley ranges: Lecturor \$A14,147 to \$A16,688: Sontor Lecturer \$A18,982 to \$A22,307 anis, was to assect of the conditions of appointment and application procedure available from the Association of Commonwealth Universities (Appla.), 38 Gordon equate, Lendon WCIH OPF.

UNIVERSITY OF ZAMBIA Applications are invited for its

2 SENIOR ACCOUNTANTS/ **ACCOUNTANTS**

including Final Accounts, Expenditure Control and Appraisals and other day to day business. Satery soale: X6,324 to K7,209 ps (£1 starting squals K1.35).

ps [21 starting squale K1.38].

The British Government may supplement estartes by 29.376 ps | starting) for married appointess or 2744 ps | starting) for single appointess or lettering | for married appointess or 2744 ps | starting | for any order of the provide onliders's oducation allowances and holiday viall passages. Family passages various ellowances apperantation and medical eld echemas | segular oversess laova. Selated applications of 2 copies). Including a curriculum visa and naming 3 referees, should be sent by simell, not leter than June 30, 1877, to the Registrar, University of Zembis. PO 60x 2379, Lusaka, Zambis, Applicanta rosident in UK chould else sent 1 copy to Inter-University Counsil, 90/91 Tottenham Court Read, London WIP QDT. Furthar particulars may be obisined from either eddress.

UNIVERSITY OF BOTSWAHA AND SWAZILAND

Applications are invited for LECTURESHIP IN

OEPARININT OF

Clasing date 24th June,

BANCOR

RESEARCH ASSISTANT A possendualo Research
Assistant le receired for lwo
ytore le work oo lhe development of notable ferromaenento
lugues le produce a field
guess le produce a field
guess le produce a field
guessy converse ment of produce
le converse with an oroloci
le converse with an oroloci
le converse with an oroloci
le converse with a field produce
fund atability at high lengents
lure and hore mentale bedeExperience of consequents
mannetam and a knowledge of
techniques gaing electron micrecoopy would be an advanlage, The excessing lengents

Applications (Iwo copies) and interest of the copies of th

ABBRIDGEN THE UNIVERSITY

OVERSEAS TEACHING POSTS

LECTURERS IN ENGLISH, MEDIA ASSISTANTS, ENGINEER (SAUDI ARABIA)

Communication Skills in English Ptojeci, King Abdul Aziz University, Joddah This Project has been developed over the lest 2 years with Sritish Council professional support and has involved like professional spacialized leaching materiels for the implementation of English madium contrast in the Faculties of

Engineering and Medicine. (1) Deputy Director (man only).

(2) Lecturers end Group Leaders (man and women) to teach English for lence and Tachnology.

Candidetes should be ELT qualified with a general inistast in science or alternetively science qualified with an interest in taeching associated communication ekills. Cendidetea for the post of Daputy Director should in addition heve had administrative experience.

(3) 2 Medie Assistanta each with exparience or Iraining in 2 of the following: graphics design, pholographics, educational TV studio work and production of models for classroom use.

(4) An Engineer with experience of in-service maintenence of s wide range of eudio visual equipment including TV and audio production isclintes and lenguage leboratories. Selary: Deputy Director, to be stronged; Group Leadars, on the scale £7,72-l to £13,494 pe; Lecturers, Media Assistents and Engineer, on the coals £7,082 to

Selery will be assessed on qualificellons end exparience and lamily chambalant oas end will be free of local tex.

Free furnished accommodation le provided, 1 yeer contracts probably rensw

LECTURER IN ENGLISH LANGUAGE (MONGOLIA) University of Ulan Bator

To teech English lenguage to University students.

Degree end formel quelification in TEFL (minimum RSA) assentiol, will exparlence in eudig visual elds and of taeching mathodology desirable. An intorast in ESP would be appracialed.

Salary: 1,300 turgriks per month (present reta of exchange £/5.04). It is not convertible into sierling. In eddition, an annual subsidy of £1,868 will be paid into the Lecturer's UK bank account.

Benefits: free medical treatment: accommodation and employor's portion of

THE BRITISH couxcid

1.0

Ç

Return latas are peld Local contracts are guaranteed by the Srilish Council. Please write briefly stating qualifications end length of appropriete service quelling relevant reterence number and titls of positor juriher information and application form to the Srilish Council (Appointments), 55 Davies Street, London W1Y 2AA.

Director University Computer Centre

The University of London Computer Centra, located at 20 Guillord Street, London, W.C.1, has four CDC computers and a steff of about one hundred. It provides a general computing aervice for more then lifty academic institutions in the University of London and other southern universities.

Applicante enould have at Iseel five years' experience in higher manegement, preferebly direction, of large computer eyelems providing services for research. Experience in the academic field would be en

Selery will be subject to negotiation but is likely to be eliractive to those earning up to £10,000 p.a. at present. Formal epplications, together with a curriculum vites should be eant by 1si July, 1977, to the Personnel Officer (THES). University of London, Senste House, Melet Sirget, London WC1E 7HU, 01-635 8000, ext. 15, from whom further details may be obtained.

University of London

UNIVERSITY OF NATAL

DEPARTMENT DF MATHEMATICS AND APPLIED MATHEMATICS, PIETERMARITZSURG oplications on invited from itality qualified persons for pointment to the post of:

PROFESSOR AND HEAD OF DEPARTMENT

The talary wale attached to the R11,250 by R450 to R12,660 by R600 to R13,800, plus 10 per cent pausionable allowanco per

amoun.
The commencing solary noted will be dependent in the qualifications and experience of the society of the post and informations.

Applications forms, further particulars of the post and information and trayelling expenses on first appointing a ser obtainable from the Registric University of Natal, P.O. Box 375. Preservantibuse 1200, with whom applications, in the prescribed form must be fodged my later than 1411 July 1977, qualing reference PMB 25177.

Research on the Behavloural, Organisational

The Centre is establishing an interdisciplinary

(1) Corporate Social Accounting: the impact of social end political change on accounting thought and practice in Northern Europe. At least one of the two associates working on this project must speak fluent German.

(2) The Design of Financial Information for Hospitals: the process of financial resource allocation in hospitals and the role played by information. The associate will assist in the establishment and monitoring of groups implementing the ideas.

(3) Cose Writing Penject on Accounting in a Changing Social Environment: the preparation of educa-colling materials to reflect the hopact of economic, technological, social and pulltical change

The Research Associates will be appointed for a three year perhat. The salary will be havel on the Oxford University Research Scale ranging from £3,333

Oxford Centre for Management studies,

from whom further particulers may be ubtained.

The University of TURKU Temporary Lectureship

1.8.1977-31.7.1978

Applications are invited for this Locurceship, mainly concerned with the "B.Ed." programme at Turku ood Rauma Teacher Training institutes, it is hoped to make a permanent appointment to this past in 1978, for which the temporary lecturer will be considered. The subsry is on the V26 scale, cammencing 3403 mk/mouth. Qualifications in relevant fields at M.Phil./Ph.D. level are desirable. Kunwiedge of Finish is not required.

Applications including detailed envicedum vitae and birth certificate must reach Kirjanja, Turan yltopisto, 20500 TURKU 50, PINLAND, not later than 12 noon on 30th June, 1977. Applicants' two referees should send their testimunials direct to the Chairman, Schunt of Philology, University of Turko, 20500 TURKI 50, by the same that 50, by the same thire.

In the event of further vacancies occurring within the English Department for 1977-78, whether an V26 or V24 scales (commencing 3074 mk/month), these will it possible be filled from umong the applicanes for the ubove-nontioned post. Applicants are therefore asked to STATE EXPLICITLY whether they would be willing to be considered for such vacancies.

OXFORD WORCESTER AND ST HILDA'S COLLEGES CENTRAL ELECTRICITY GENERATING BOARD RESEARCH FELLOWSHIP IN ENGINEERING SCIENCE

Applications are invited for a CEOO Baroarch Followship from candidates wishing to work in the Oxferd University Engineering abouting to the control of the wide inference of the CEOB The Followship will be at Wordsoler College or Engineering the successful candidate in a nise or a woman. The Followship will be expected to participate in College tarching and may also undertake a limited amount of University Tearthing. The oppointment will be for these yeard, and it is reped that the successful opplicant will be able to take uniform the oppointment of the property of the college tarching. The sulpand, will be able to take uniform the oppointment of the property of the college tarching. The sulpand, will be able to take uniform the oppointment of the college Followship brings collain adultional british and the College Followship brings collain adultional british and the Sanior Tuler, Worooslar College, Oxford, before June 20, 1977.

UNIVERSITY ZAMM

Applications are tailous/ing posts a ship values (1) PROFESSOR (2) PROFE

Inchaing a contest noming a reletely, said by ar mell, of 28th Juno, 1871, 187 the version of 22179, fuests Zenbi-content in UR, at said 1 copy to the Council 20/21 Total Road, London the 20/21 Total Road, London the 28th Road, London the 28t

UNIVERSITY OF WEST INTO SARHADOS Plications no least LECTURER/ASSIST

UNIVERSITY OF MANITOBA Applications and nominations eta invited for the position

TABLE UTING DEFARIMENT OF LANGUAGE TO Protection of the restrement from that post of Protector E. G. Serry. The Obsertment office under graduoto programmes in Greak, Latin and Greak (anguing and some M.A. work in Latin and Greak (anguing and anguing and anguing and anguing and anguing anguing

UNIVERSITY OF ADELAIDE

CHAIR OF COMMERCE (Roloronce 7.3)

(Roloronce 7.3)

The Department of Communication on all this two departments of the University of Additions. The Department works in close out-one that the Economics of the University of Additions. The Department in administering the three-year course for the Bachelin of Economics, and conducts undergraduated course for the Economics of the Eco The Department of Communical

University Collags of

Candidates should possess of lead on the transfer of Methematica. An interest in Algebra or Numbroad An Interest in Algebra or Numbroad Analysis and Methematics. An interest in Algebra or Numbroad Analysis and Methematics. Experiescs in design and implantantiation of a degree program of in Methematics in a developing university would be perficularly relevant. Appoints will be expected to participate in teaching First and Second-Year Mathematics courses to (mointy) 80/ence situations and to contribute to the design of a degree programme and in Methematics aducational planning on a mailtonal fovel. Salary acais (under review): E3 824 to E5.378 pe (21 stating square E1.48). The The Callish Edwardment may supplement eatery in lange 21.644 to 22.085 pa (stating) for morring appointed or £664 to £1.284 ps (stating) for single appointed information for first indication of the stating square education alto the education alto two fous of etx yenra for experiment. A 25 pet cent of experiment, a 25 pet cent grafully payable in lieu of superennualion for first low years. A 16 per cent inducament allowance psystem to supplications in a qualifying for supplications and countriculum vities and reming 8 referees, should be sent by eliment, and social programs and selected applications and selected applications as a copies, including a currioulum vities and raming 8 referees, should be sent by eliment, not later them July 4, 1977. To the Regiders. University College of excitance for experiment, supplicant and provide and application of the second for a second for the second for the second for the second for the second for a second for the second MATHEMATICS

Applienets should submif a curice-lum vitae, staffing present salary, teaching and research experience, in-terests end publications, whose evalu-able it oppointed, and the names and addresses of three referees. Momoranda concerning the position and general conditions of saying should be obtained from the Registrar, Room 1. University of Cape Town, Private Beg AA, Roadesbosth 7700, South Africa, by about applications must be received set leter these August 15, 1977.

UNIVERSITY OF MELBOURNE **DUNBAR** HOOPER CHAIR OF OBSTETRICS AND GYNAECOLOGY :

Applications and invited for the Dunbar Noopler Chair of Obstdirtos and Gynsecology el lihe Royal Women's Hightal. This Chnir will become vacent on tal January, 1978, on the en tal January, 1978, on the retirement of its first occupent, Professot Sit Lence Townsend. The appointer must be affeible for registration as a medical puscification in Victorie.

BALARY: \$A34,984 per senum ipfus of present a non-superannuabla oilalost toading of \$A1,000 per annum.

Further Information concerning the Royal Women's Hospition progedure, superannualion, including details of application progedure, superannualion, including details of application progedure, superannualion, trous and romove systems of applications of appointmant, for available from the Registrary of conditions of appointmant, or from the Secretary General, Association of Commonwealth Universities (markod 'Confidential') should be addrossed to the Registrar. The University of Melbourne, Parkville, Victoria 3852, Australia.

in this management of insuiseries ore desirable equalificafloap.

The post is to be filled in
October 1977. The person
appointed will be responsible
for the leaching of insurance
and risk management on the
pew degree course in Banking;
leaching to finence and will
be expected to periocipate in
the research programme on
risk analysis in the institute of
European Floamere aspeciated
with the Oegsamment of Econoci
management of the context.

UNIVERSITY OF NAIROBI-KENYA

Supposal and are in play to a SEMOR LECTURESHIP IN MATRIEMATICS

Aprilla ants model make gard production quarter drops in Proc Application Application Mana-native or Statetics and a loss are good a leading and reposing are yours leaching and allege of points and allege of points of University level in page for the following and tension to footing undergraduate Mathematics. His appointer will be expected to surferiste come in Science of Specialization. Salary scales: K2:172 to K1.509 p.a. IKCI counts \$1.40 for p.a. IKCI counts \$1.40 for p.a. IKCI counts and appointed or \$2.676 o.o. alcohold to surfer in the surferist of the surferist the su ismily passage: ; valuous aflow-ances.
Dutailed applications (2 cupies) including a curriculum value end naning 3 relevees should be sent by air mail not laier than 27th June. 1877. To the Registratification of Training, University of Natioul, P.O. Sox 30187, Natrobl. Konya. Applicants testion in U.K. should also send 1 copy to hito: University Gounsil, 90/91 Toltonham Court Road, Londos WIP 90T. Further calificulars may be obtained from either address.

ABERYSTWYTH THE UNIVERSITY COLLEGE
OF WALLS OFIMENT OF LAW Applications are invited for the post of LEC-PURER in LW to commence in October Salary on the scale £3,333 to £0,045 per annum.

Application forms and parti-culars available from the Rigis-frar. Closing date. 30th June

ABEILYSTWYTH

THE UNIVERSITY COCLEGS
OF WALES OEPARTMENT OF COMPUTER SCIENCE

COMMUTER ASSISTANT regulard to fan, alter a large to fan, and Salary by the manoe \$2,000 to \$4.811 per annum.
Further definits and application form has been believed from the Rogistrar. (-lesum date): 20th June.

ABERYSTWYTH THE UNIVERSITY COLLEGS
OF WALES

Applications are invited for the post of LEGTRIRER to be respectively and SOCIAL STRUCTS and SOCIAL STRUCTS and to particular department of the social structure of the social

UNIVERBITY COLLEGE OF NORTH WALES

Universities continued

The state of the s

ST. ANDREAVS

REPAIR SENERGE CONTRA

Applications do hydred for 11 to 11

control of the probability of the control of the co

CONCRETE Y DP

ST ANDREWS

DEPARTMENT OF SPANISH

DEPARTMENT UF SPANISH
Applications are invited for a 11 GHM SIPP in the Department of SPANISH. Applications of SPANISH. Applicates should be generalized to terror on Medievat and Collect Aug Birtheria and Solides. All Berries at Services and Collect Aug Birthelman and Solides and Services and Solides and Services and Solides and Services and

FIFE

UNIVERSITY OF

COMPUTATIONAL SCIENCE

Applications are invited for a Deptition of the best of the property of the pr

nscarch.

- balary at appropriate paint on
scale 32,755 to 67,735 to 1
- snaum, surling solary probaby not alway for 24,811
- fide 1/12,33.

Applications (100 conics,
precediby to type-script with
the procediby of the prothough the Labelletturnia
office of the Indiversity, 1,20,
1,20,33.

The shall be shall be stated to
the day of the Labelletturnia
office of the Indiversity, 1,20,
1,20,33.

The shall be shall

Polytechnics

THE POLYTECHNIC

RECOURCE IN PHILOSOPHY

Required for Replember, 1977 for the Maler and Allinsi-tedies in Philosophy to the B.A. to Studies in the Hunoral-tes.

Ralery wales; lecturer made I; exama, in chieve made I; exama, in chieve made I; exama, in chieve leade II; exama, in chieve leade II; exama in chieve made II; exama in chieve made in control details and number for forms are obtainable in the perfection, pan to x intended perfection, pan to x in the latticed, Hortfordibility, or in the latticed, increasing in the control of the perfect in the

listicid, llorifostichire, or teir-hago fratield dilliks, ext. 393. Picaso dunie rofer-tata numbor: 8/2.

SHEFFIELD

CITY POLITICINALS

AND MIDDLESHIDGE GIT Schlidig Applications are invited for IUSEAUCH TELLOW to John

Applicants arout possess re-aparch experience and know-ledge of or experience in local generations. The appointment will con-cents as such as possible and all he for two years. The party will be in the range 5,555 to \$2,507 per admin its attention.

C/182-1fR. quelo

BRAOFORII

SOCIAL WORK RESEARCH TUMPORARY LECTIONEDS (2)

Appointments will be for a cried of three years. Rulary lithin raye: C3.735 to 56,665 or nangar. Superannuable. Further parliamers and application form a obtainable from the Registers. Casts Red. ASS 1. 13-16, 711. Interesting of Braining Corresting of Braining Corresting on the Braining Corresting Corresting

> CAMBRIDGE SCHOOL OF CLINICAL MEDICINII

1900

Applications pre invited for the state of th

CANTERBURY UNIVERSITY OF KENT PAGULTY OF HUMANITIES LECTURESHIP IN ENGLISH AND AMERICAN LITERATURE

CANTERBURY REITY OF KENT THE LANOUAGE CENTRE LECTUREO IN GERMAN

Applications are invited for this pertunent post, storting fat Cituber 1977, storting fat Cituber 1977, storting for the perturbation of the pertu Auplication increa and fur-harmonication increa and fur-hard principal property of the partial from the Pirector. The manufacture of the property of partial property of the partial function reference Alders simulated pact the mateurally by 24th June 177 June 177

CANTERBURY PRIVINSITY OF KIRT LILULIY OF HUMANITHS

CARDIFF

UNIPERSITY COLLEGE

TIFSEAID:IT TITLEON

dpublishers are health for a three-year vacours in the Strain Mechanics. Besearch though at the property of Mini Pal. (NP) of Tallian for the Strain of mini Pal. (NP) of Tallian is the Strain of minimum disposal to the Strain of minimum which involves the high-stubul mechanism which involves the high-stubul minimum minimum disposal in the strain of t

Camildates should hold a Ph.C. in a blanch of rack three-properties with appropriate water sections.

Cd. 194,

Dinles to teatmonce as soon os posable,

DUBLIN .

PRIVINGE COLLEGE

DEPARTMENT OF MATHEMATICAL PHYSICS

HESTARICH FELLOW IN CONTINUON MICHANICA

Applications are invited for ansilton of Russerch Lichay to work with Or. P. K. Caurle on a two-year literatural pro-net on the electricity of bishi-rryatus. Invited by the National Strong Comett.

Applicants should have a Ph.H. in Mathumilles, Physics of Inglinerhop, preferable with experience in find dynamics or communication mechanics.

DURHAM THE UNIVERSITY

DESFAUCH FELLOW IN ARTS

DURRAM

THE UNIVERSITY

ANTIMERRIE IN

ANTIBIPPOLOGY

Applications are invited for the wall of Fernius in ANTIBIPPOLOGY chilled in ANTIBIPPOLOGY chilled in armo, obsect of the lost hydralable, from the Colober 1977.

But the state of the colober 1977 with the original state of the colober of the colobe

DEPARTMENT OF POLITICS

Applications are invited for the post of 2-2-1 III Medicality (17-10) I.R. in 1901. Fall A. [PROPERTY AND THE POLITICAL PROPERTY AND THE POLITICAL PROPERTY OF THE POLITICAL PROPERTY OF THE POLITICAL PROPERTY AND THE POLITICAL PROPERTY POLITICAL PROPERTY POLITICAL PROPERTY POLITICAL PROPERTY PO THEOLOGY disultations are invited for two consultations as Lecturer in Throbert from 18t Childer 1977. Candibilité for our amendation should have a que fai inderest in aspects of toutinental throbert troughests in the invited for the present fave. For the other, candidates should have a spectal interest ability to the other, and there is ability to brack in another ability to track in another orea of Theology will be founded. Both questitionits will negle in the layer part of lecturer water (53,537, 15,653 per genue); Turther particulars and application factors may be interested from the Assistant Registrar, Laculity of Humani-lies, the Registrar, Tine Phyloce-ally, Cameriousy, Kent, qualitar Februare, A.18.75, he whom Completed amplications should be received not lacer than \$22nd June 1977.

EXETER THE UNIVERSITY

EXETER THE ORIVORSHY

PERMITMENT OF POLITICS

DEPARTMENT OF CHOLISIE Applications are invited for two tulors in the Department of Loullah, one specialism in Medieval Studies, the other in day period from the Hemis-sance obwards. The appoint-heats are left one vest, but may be a belief for a second and that year. Harber barbents from Miss University Rabon, Adadminated Assistant (Appointments), Halver and Color, Color, Loter Loter (Appointments), Halver and Color, Col

> HING KONG THE PARTERSON

Applications are inclined for a past of Lecturer Aspession Lecturer Aspession in Life! Imminocation Application in Life! Imminocation are corporated in the common and are corporated in manufaction of the common and the common of the common and the common of the common and the ince hands, see k ince and a sent of angine rim needs of a sent set in the control of the contro

Comments duty: 151 Uclo Commonching Sobres: C3.717. Applications with the nature of two referees intuited by sent by June 21th to Dr. P. K. Gurrie. Dejd. of Molifermatical Physics, University Cultum further particulars that he untained LEEDS THE PRIPHERITY STRUCT OF FRANCISHS

Applicable for invited for the part of 1022-1011AUNTAL ASSISTATE IN the 80 0001, of \$2000AUC STOMES HOW I Statember, 1577, DUNDEE THE PRIVERSITY Aligheations, from graduates and others with amiturelate professional middlike interest with amiturelate professional middlike interest with a middlike with a middlike interest with a middlike int Salary will be on the Adduction folding. III scote, 133,507 Further particulars of the view at a challander from the Router for the Router fo

LERDS THE UNIVERSITY SCHROL RE GEOGRAPHY Airdicallors for Incited for the nest of Elistuation in the specific production of the production of the second production of the second construction of the second the major fields of human second of the second of the second the second of the second of the second the second of the

LEICESTER THE UNIVERSITY OPPAREMENT OF GEOGRAPHY

LIVERPOOL THE UNIVERSITY OCCALITMENT OF MODERN HISTORY The pest is the pest of the pest is a pairty within the range as a pairty within the range (\$2,379.23.76). Applications of the pest of the THE UNITERITY

AT PANTEHRUM PACCEAR OF SOCIAL SCIENCES. HEATH SENIOR TECHNICAL MANDELS AND LESS OF THE RESERVE POLITIES AND HOVERNAL ST Annibations are inclined to few boxts in 1944 Ites and 1974 Item and 1974 Ites and 1974 Ites and 1974 Ites and 1974 Item and 197

one or more of the following delicks flusson (divertiment) and Politics, internallogal Relations, European Integration, Applicants for Hussbatt Fowerliners) should be competent in the Mistran Countries. The Rentar abgolithment way be made in any of the above made in any of the above made in any of the above made in any of the internal in European Integration may be fine with the Hillertostall of the proposed crisis for European Studies to be adjusted for European Studies to be adjusted in the Hillertostall of the Hillertostall o Salary According to graphical thous and experience will be our the water to let an 17,935 (Boulet Carlifor) and 15,555 to Coaffil (La Intel) Inflor barifriday and spileally for the factor of the fact

LANCASTER THE UNIVERSITY DEPARTMENT OF EDUCATIONAL RESEARCH Abdications are included for the next of LAC (140) Fit for next of the next of

Salary on the scales Collection to Society. Purther particulars may be obtained continue reference 1.00-(2) from the Usabilishmon little 1.01 (1.02 (1.03 (1.0

LANCASTEIL THE UNIVERSITY LECTORER IN PREHISTORIC AUGUSTIONAL

Balary of the scale Co. Ma-Theorem patherers arry hembridged epholine reference 1.497 Certifon the Ushfulste more Ullifor Indiversite House, 1.50 arrivers 1.44 a 47W, to whom applications they content and the content of the cont

LIVERPROS. THE DRIVERSHY National Calibration

Applications are noticed for the use of LLCTCHLIT of Education INDESTIGAT STUDIES in the Institute of Extense Studies, from the Extense, 1977, or 05 Shull als Business and the control of Business and the control of the Business and the control of the control of the Business and the control of the control

Applications, Inactive with the frames of litric references and the resident politics and the frames of the frames

THE UNIVERSITY GOLDSWILLIN, FOLLEOF ACHOOL OF BUIENCE AND MATHEMATICS IN Applications are invited for invited further pursues of invited further in Medical further appears in Medical further appears in Medical further invited further invited further invited further invited further invited further in Medical furth Balary for Lecturer (trade it on Scotes of Salaries for Fachers in Delabitation its for Further Education. I undon allowanto payable.

LONDON

RIJODESL SCHOOL OF ORIGINAL AND AFIDEAN SITURES THE UNITER CHAIR OF THE

liv history Com-

SHEFFIEL

THE UNITED

IUSLABOTI ASSISTABI IN | Professor I. A. |
| Iraa si the eed of Applications sie ba. |
| Applications sie ba. |
| Bost of Professor St. |
| Bost of Professor St. |
| Salary Stie J. |
| Sal sing, equite, or me, it is in the property of Appointment for one wait from the inter 1, represents to the filter 1 in the year. Starther Start 12, 1-6 per aniting pide acet one planetine of of \$4.2 per atminia and allow-ites for a martiel person at \$4.3 per atminis and allow-ites for a martiel person at \$4.3 per atministed person at \$4.3 person at \$4.3 per atministed person at \$4.3 person atministration at MANCHESTER

THE TIMES HIGHER EDUCATION SUPPLEMENT

LONDON

THE DRIVERSOR ADUMSHIATIVI GRARDATI, ASSISTANT Applications are brilled in a 1993 in the Regional's Regional's Regional's Regional's Regional Regiona auditalleri.
Lurber Battleubers and applecable forms resourced by Juno Sohr Home the Benjistiar, The University. Main bester M. S. 1932. Quode let: 01.77 111.8.

NEW ZEALANII O PERSONALISM CHARLES Applications ago institud for the above-mentioned post. Candidates should have past-arothete on the second later of the above-mentioned post. Candidates should have past-arothete on design of the second later of the second later of the above-mention of the second later of the above-mention of the second later of the second later of the above-mention of the second later of the second DESTRUBBING IN GLIDAN PERTUITANUATE ST LINIANIANSO INI UN'ATION L

NEW ZEAGAND

14/711/11 III LEZINOMIN S. Anglicants should have a 19,11, and or research public afters in any of the nodii atters of Legipoides of Legipoide IIIs

Day.

Judh affines these on 54
July, Perci.

1137-11-01 ft hi identify forest
H-91-30 CH - Heratharint of
lookeaster. Jepticality may
love qualifications in any of
lice hour alress of Orientlines
lesserich.

Applications that on the

AS HORE IS MAY, 1977, He salply har locality by on a male from NAS that he sale from NAS that he sale from his allowance has a feel of NAS dos not adjust by sale was a sale of NAS dos not adjust by pay-allowance has not not in the sale.

able

Patth akito. Including Information on Travel and Tenera Romanilm and Section 1998.

By and single-annihment, or the best best by the land of the best best by the land of the best by the land of the land o

NEW ZEALAND

UNIVERSITY IN GENTLEMENT Christianich

CHAIR OF LIVING

LNGING-IIING

The Council of the Patterally Invites dipilicallots for a
Ciffalli of 13 VII. 1-8 (ANLI).

The Clair, are al three
established in the department.

Becume Scattel by the redrepine of Pruissar II. 1. Housthe Decime State of the Anlie
of Pattern of the Anlie
of Pattern of the State
into the his providere will
inte up the appointer will
inte up the provider of the later
lime as holy be strained.

The appointer may be required to assume the hashible
of the destine the hashible
of the destine the landship

result of the roders of adjusted that professorial solvers within the entered that the entered the entered that the entered t

BEADING

THE DISTY HRITY

CECULIDENIA IA

Applications are inclined for on infallicities in GEG-GIAPHY From persons with qualifications and experience in those opening with person appointed should take up thates up I lictober. 1977, or such other date on may be arranged. Further information may be obtained from the feminar thousand from the feminar thousand from the feminar thousand. The Interest, white-shights, fixed ing the 2AB, by whom applications obsuid the restreet and later date.

LITTURES re-adresses. Applications to the arms of th Applications close on Sist ther and Berrian in a little and Berrian in Shelling in a shelling in a shelling in the shelli UNIVERSITY OF TANTERSHIPA Applications are histed for the following positions:

SOUTHER THE UNITED DEPARTMENT GE Temporary End Hard N. F. 1971. 1871 in July 1971. 1971. 1872 in July 1972 in July 1

Deflet territors, chlaimed from it. Section, 190 United autolon, 809 Self. Speller tipes applications the self of the self. Plans const. 1977. Plans const. 1978. SOUTHAMPI THE UNIVERSE HALLAN STUDIES IN

COMPUTER SERVICES EDUCATION AND LIAISON The error nenotator will be responsible to the Application of the provision of short course, and qualitative short course, and as the course of the and sorvice is based on on the standard sorvice and fine sorvice before and fine standard sorvices calleges and sorvices calleges and sorvices and sorvices calleges and sorvices are sorvices and sorvices and sorvices and sorvices are sorvi Applicate a Model have sound stated congular experiments and denousirate an indicate and congular as a sound in the second second as a second describer of while restrict of the properties of the second open prish the second open second second open second second open second seco ST. ANDREE THE UNIVERSE DEPARTMENT EPARTMENT OF URGAN AND

SEMOR CECTUREN IN AMIS VALUATIONS IN VALUATIONS IN VALUATIONS IN CONTROL OF THE PROPERTY OF THE pornigerad, provider as considerad, providerad as considerad, providerad as considerad as considerad

The Polytechnic of North London

CONTRACTOR SANDAMANAGAMA

Application, are invited for the following pasts, length from 1st September, 1977.

Faculty of Economic and Administrative Studies: Lecturer (Grade II) in Statistics and/or Operational Research

Applicants should hold an humour, degree or equivalent in relevant subjects and preferably a higher degree, hudostrad experience would be an advantage. The successful applicant will be required to teach on the R.A. (Hone.), Accounding Degree Course, various other accounting courses and on the course for membraship of the instance of

Faculty of the Environment

Lecturer (Grade II) in Architecture Applicants should be qualified architects, experienced in design and interested in the theory and techniques of architectural

aducation.
The successful applicant will join a least teaching architectural design at legace and/or diplome level, mainly through the modium of group and individual tuterials in the stuffe, and undertaking the associated administrative and urgenisational

to addition, the appointment will entry particular re-panalbility for day-lophy and teaching the subject aron of design and technical performance specification in the various courses of the department. department. Stoff are encouraged to pursue appropriate research and cunsuitancy interests which contribute to the academic and professional vitality of the department's work.

Faculty of the Humanities

Lecturer (Grade II) in Classical Civilization (Ancient History)

Applicants should have a good honours degree preferebly with research experience.

Preference may be given to applicants with a special interest in from an History.

Temporary Lecturer (Grade II) in Physical Education

The appellment is for one year from the 1st September, 1877 le the 31st August, 1978. Applicants should have an appropried a reademic qualification and professional background with teaching experience, and will be expected to contribute to the teaching of Physical Relucation at hancours dispress and contificate level. A knowledge of modern carriculum developments in Physical Education is essential.

Faculty of Scionco and Technology Lecturer (Grade II) in Chemistry

Applicants should have special qualifications in organic chemistry. Experience of the applications of organic chemistry to that chemistry be not interested to that chemistry are designable. An injurest in the teaching of chemistry both to subject specialists and to after students is essential.

Lecturer (Grade II) in Mathematics Applicants should have a good homers degree in Mathematics and considerable post-producte experience in a floblad unpilleable mathematics other than classical applied mathematics. The person appointed should be proposed to tooch a range of courses in Mathematical Methods and Applicable Mathematics.

Lecturer (Grade II) in Statistics

Applicants should be graduates with suitable post-graduata experience in Statistics.

The Proculty affers CNAA BSc (Honners) courses in Mathematics and Computing, an HND times of a Mathematics, Statistics and Computing, an art-time affect in Applied Statistics and are course feating to a Postgraduate Diploma in Applied Statistics.

The Public thate has an ICL 1995E computer, with a wide range of statistical software and libra are proposed facilities for research.

Salary Scale: 24146 - 26387

ISlaff at the tap of the Lecturer (Grade II) scale con expect progression to the Senior Lecturer scale subject to satisfying an officiency requirement.)

RICHMOND COLLEGE, LONDON

The Governors Invite applications for the following post in the rapidly developing independent university college, which is licensed to swerd the AA degree by the Board of Higher Education in Washington D.C. and has a multi-

HEAD OF FACULTY OF

BUSINESS, MATHEMATICS

AND SCIENCE

Business Studies, Mathemetics and Sciance form en ex-

panding pert of the work of the College. This post requires the teaching of: 12 hours of Businass Stadles courses per week plue counselling of dudents and supervision of both full-time end visiting faculty. Candidates must have a good degree in business studies and have experience of degree have teaching preferably using the

Application forms may be obtained from the Principal, Richmond College, Queens Road, Richmond, Surrey TW10 6JP, and should be returned as soon as possible.

case method, and course planning.

SALARY SCALE : £5,500-£6,000

officiency requirement.)
Application forms and further porticulars (please sinte post in which interested) can be obtained from the Establishment Officer, (T), The Polytochnic of North Loudon, Hollowny Hoad, N7 8DB. Takeshoon No. 01 607 2789, Ext. 2018. Closing date for applications: 24th June, 1977.

BLSTER THE NEW UNIVERSITY School of Physical Sciences LECTURESHIP IN MATHEMATICS

Application as needed for a lecture dap in Platte mates of La-teaux/Operational Tolographical Competitional Section 1 from October 1, 1977, cr. 25 years as possible there are:

Applicants about has library production of significant to specific at the sound of the specific production of the specific produc Salary scale with FSSU/USS \$1,333 to 16,655 per airbuin It is interfact to appear a one of the first three points on the scale attenues and appear the scale attenues and appear may be considered for a pation-tally well qualified consider

Fullier projection may be obtained from the Requestor. The New University of Unior. Columbia. Italien Italien trained to whom applications, including the names and addresses of these releptons, should be sent nor taler than July 1, 1977 (qubling relevance 77/78).

ULSTER :

School of Humanitles

TEMPORARY LECTURESHIP

IN SPANISH

Applications are invited for the appointment to a temporary Loc-isreship in Spanish for one year from October 1, 1977.

Applicants should be gradualed with a good honours degree in

The laschine dulles will involve courses in literature. Corventes, 20th contay poolty and some language.

The salery (with FS8u/USO) will be on one of the first three points of the Lecturer's scele, to £3,333 TO £3,547 TO £3.761 per annum.

annum.

Furiher particulars should be oblehed from the Oegletrar, The New University of Ulatar, Colaraina, Northern Iralacad (quoling ralazance 77/79), to whom application, logether with the names and addresses of these telegraps about the raturned not loter than July 4, 1977.

ULSTER :

THE NEW UNIVERSITY

School of Physical Sciences

(1) LECTURESHIP IN PHYSICS

(2) TEMPORARY LECTURESHIP

IN PHYSICS (2 YEARS)

Applications are invited for the above poets tanable (1) from fail Saplamber, 1977 (2) from the Cotober, 1977. Clutoni research interests are contred on the physics of solids and energy atudias. Cendidates oliering other research listed will also be considered.

Salary scale (with FSSU/USS): £3,333-£8,855. The appointment will normally be made withis the lirat three points of the acels.

Further particulate may be ob-lained from the Cogistrer. The New University of Ulster, Colarsine, Notibern Iroland 6752 16A | quoling Rel: "77/75| Io whem applicatione, including the names and addresses of three restreets, should be aont not lates than 1st July, 1977.

ULSTER: THE NEW UNIVERSITY

Education Canira

LECTURER IN EDUCATION

JEDUCATIONAL DEVELOPMENT

ANO ACMINISTOATION)

Applications are invited for a juli-lime tectureatip within the Educe-iton Centre, which is sveilable from 1st October, 1977. Candi-dates should be honotire gradu-ales with separation of teaching in achieved the speciel quali-ficilions or speciel interest in the list of advantage development and administration. Qualifications in the advanced study of edu-cation would be at advantage.

Salary : £3,333-£6,665 per affinum (with FSSU/USS).

Further perticulars may be ob-lained (quoting Gel: 77/78) from The Cegistrar, The New University of Uster; Colsraine, Northert Ireland STS2 ISA, in whom expolications, including a labilated curriculum villas and games and addresses of three referees, should be sent not laier Iban let Juty, 1977.

THE NEW UNIVERSITY

Department of Sociology Lecturers in Sociology (Grade II)

Applications are invited from good Honore cretueles with research and/or relevant proteosional experience for Lectural typosts in Sociology, Assas of special inferced at the Sociology of Medicine, Covinnoe, Organizations, Culture, and the Stets Broad ecademic interests with be an advantage, and a serious commitment to resoluting the essential, Salary Scale: Lecturer II 53,279-55,493.

(Plus appropriate Covernment Cupplement of up to a miximum of £192 and appropriate Loudon Allowance).

LeedSpolytechnic

School of Architecture and Landucapo

SRC offers research sandoutstape within School of a value dependent on age, named status, expenses a

Architectural Dissign and Strience.

Applications are invited from graduates in

Architecture. Engineering. Computer Science are
oil 1st Class. Upper Second or Higher Degree

quality wishing to read for CNAA M Phil or Ph.D.

Futher details and applications to be returned by
20 June 1977, from
A.D.G. Davonald, Priocipal Lecturer, at the

School of Architecture and Landscape. Brunswick Terroon, Londs LS2 8BU.

RESEARCH STUDENTSHIPS

SRC STUDENTSHIPS

The School researches in Computer Aided Architectural Dissum and Science.

and teaching dimes.

(Tol. 448541)

lo o maximum of £492 and approprista Loudon Allowance). Further definite and Application Form from: The Senior Statung Officer [2], Cal: 5/AO.225 Narih Saat Loedoe Polytechnia, Forcel Road, London E17 4JB. Telophone: 01-527 2272 [Estecalos 20]. Closing tiole: 28th June, 1977.

North East London Polytechnic

KINGSTON POLYTECHNIC School of Business

LECTURER II/SENIOR LECTURER IN ACCOUNTING

lo join a laom of stall lecturing on e wide range of course up to final degree lavol. Applicants chould be graduate and membars of a protessional eccounting institute. School of Surveying

LECTURER II/SENIOR LECTURER

A professionally qualified quantity ourveyor (RICS/IQS) is required to teach on dogree and degree-lovel courses. A special interest in Building Construction and Servicos

A special interest in Building Construction and Services on advantage.

Selary range £3,488-£7,028 inc. London allowance plus eward in accordance with current pay policy.

Further details and application forms (to be raturned by 30 June) from Appointments Officer, Kingston Polytechnic, Penrhyn Road, Kingston upon Temos KT1 2EE, 01-548 1356.

TRENT

THE POLYTECHNIC DEPARTMENT OF ELECTRICAL/ELECTHONIC ENGINEERING

LECTURER IS SENIOR
LECTURER IN LLCCTRE AL
RUBGIRONIC ENCOMPERIONS
LES, 279 to £3,935 | fart 10
6,417 | films supplement of
£3,12 | and supplement of
aupplement of £1,73 to
£4,60 pper supum)

For further dotails and foun of application pleasa send a self-addressed foolarous enve-tage to the Chief Administra-tive Officer, Trent Polytich-nic, Bardon Street, Notlinghum NG1 4012, Closing det 28 June, 1977.

LBICESTER THE POLYTECHNIC

Applications are invited for (1) SCHOOL OF LAW
1PON 1523; LECTURER II.
1PON 1523; LECTURER III.
1PON 1523; LECTURER III.
1AW
100 dayree And profesional
counsels and profesional
be academically and/or profesionally and/or profes (2) SCHOOL OF ECO-NOMICS and ACCOUNTING (Post 102) AND ACCOUNTING (Post 102) IN ECO-NOMICS for degree and other courses. £5,745 to £6,447 Sor £6,909 per sumum inclusive of supplement.

ing date 30.8.77.

THE POLYTECHNIC RESPARCIT ABBISTANT IN CHEMICAL ENGINEERINO Applications are invited for a desearch Assistant in the field of solvent estraction with particular reference to the extraction of metals. Applicants should have or appet to receive a good hoogues drores in themical profession or a related discining

SUNDERLAND

THE POLYTECHNIC

FACULTY OF EDUCATION NESBARCH OFFICER

(Satery Scale : £2,469 by £126 (2) to £2,721 per annun plus £312 aoppirment)

A lwa-year lass project on particul leaching sulls storie file year east file socreteful cundedte will be heavily included in this work. A background in 1919 of the rentification of the stories decipined to unleading the stories of the stories of

TEESSIDE

The appointment is icamble for three years and the submble candidate will be expected to register for o higher dearn. Balary, \$2,225 to £2,425.

F.

C 1

THE STATE OF THE PARTY OF THE P **Polytechnics** continued

THE POLYTICISM: IntiStairch VACANCHIS Internation Vacarcities

Internation of the control of the control

REGEARCH ASSISTANT IR.
HO COMPUTED LENTIFE.
HET. REG. TO WORL ON POITONNANCO SINGLO ON COMPUTET
HO WORLD.
HISARCH ASSISTANT IN
PRYCHILOGY CTWO POSIST
HOLE. 850. (lot): 890.

One in the area of psychonicines attended to a particle on total fraction and transfer and interesting data.

Evaluation data. One to the orea of implied condition psychology allacined to a project on cognition processes undorlying spelling fregrech Assistants are on-couraged to register for a lighter degree. Satury scale \$23,586 to \$23,647 inclusive. Turfor details and abolicaon forms may in objidite
on forms may in objidite
on the Stating Filter. The
filled Polytechnic, P.O. Boy
v. Italind, Herty, Ar.10
j. or leignbone Haffield
Ov. ext. 30%.

Closing date for completed polications is 27 June, 1977.

Fellowships and Studentships

Brighton, Sussex BN1 9RE, England

Rural Development

at the University of Sussex

Fellowship in

THE INSTITUTE OF DEVELOPMENT STUDIES

Applications are invited from candidates with an inter-

Applications are invited from candidates with an interdisciplinary background and preferably with research
experience in Africa to undertake empirical and theoretical
research into the impact on poorer people in the rurel
sector of one or more of the following: technological
alternatives in agriculture or irrigation; domestic or foreign
sources at agricultural tinance, managament, and input
supply; implementation of agricultural policy and planning;
rural divarable in the strength and tood aid.
Salery probably not less than \$6.443 p.s. with superspansion

Salery probably not less then £6,443 p.s. with superannuation under F88U/USS. Further perliculars are evalloble from the Establishment Administrator at the above address ttel. (9273) EB2E1, Ext. 2B7).

Closing deta for applications 30 June, 1977.

Department of Psychology

NELLP North East London Polytechnic

LONDON

THE UNIVERSITY

QUAEN BLIZABETH COLLECE Campden HW Road Lenden WS 7AH

PHRADIMENT OF

Research Studentships

Applications are invited for SSRC or MRC quota eweld research studentships in this large and well-equipped depailment. The major research teclifiles include specialized social/developmental laboratories, a new physiological psychology laboratory and sxcellent computer (eclifies.

Supervision is available in most areas of psychology, and those interested should contect R. H. C. Bell, Secretary, Research Committee, Department at Psychology, North East London Polytochelo, Three Mills, Abbsy Lass, London 815 2RP.

NOTTINGHAM

THE UNIVERSITY

DEPARTMENT OF GOCIOLONY

SHIC HESEANCH

Applications are invited from oracidates in Sociology or from those preducing this summer who wish to be considered to see 1986; Studentialities The are

sign of the control o

YARWICK TILE UNIVERSITY

RESEARCH STUDENTSTUPS IN ECONOMIC HISTORY

The Department of Economies have hade awarded two 8.8.R.C. (www.your research liabling aludentships for research work in New Economic History leading is the deston of Ph.D. Applies lings are invited from graduates in Economic Seconomic Seconomic

LINDON, N.5 HIP POLYHECHNIG OF NORTH CONDON DEPARTMENT OF SOCIOLOGY TEMPORARY PART-TIME

NORTH LONDON THE POLYTECHNIC IJBRADY AND Subject Environmental Coston

Applications are invited for the above post of Hollowar frond Florry, Applicants must be gialitied librarians, have appropriate library experience and some knowledne in the array of architecture, lown glanning and interior draign.

S. jary Stale: £3,694 to £1,537 inclusive of London Allowance

Application forms and further details from Neary Harmonid. History Education and Training Officer, The Polytochaic or North London Library and lateracidan Service, Hollaway Hoan, London NY Sott.

Closing date for opplications 24th June, 1977,

STUDINTSHIPS Applications are invited for 8 still Outlierlands both for the degree of the first states of the first sta Applications are invited for the past of lemporary part-tine results to the second-order tract results for tests social payriculus? for approximately social fours per week on a 1. N.A.A. Degree Course in Socialogy. rious 2804 Sopirollat, 1977.
Candibles should baye, or hope to obtain in the simuner of 1977, a good lincollated in Control History I contacts, History or related the philips. Date of pay 55.79 per lead. Phase graphy to the Head of the Department of Mondeleys, The Polyacipic of North Lan-don, Laddrob Stense, High-bury Brove NS 2400 (50) 2789 ed. 5(67).

The value of the Student-ships is \$1,270 per audia plus free for COSS plus free for subouts living in the parental launer subject to rorision.

Applications, togother with the nature and addresses for two friores, should be sent in Professor IV. I. Muchin, nepriment of Economic History.

Bernalmin Court Halvestry of Exclor. Exclor Ex4 4PU, by 11th July, 1977.

EXETER

THE UNIVERSITY

DEPARTMENT OF ECONOMIC

SOUTHAMPTON
THE INITERISTY
OLPARITMENT OF COUCATION
S SHEE, STUDENTSHIP
MALICAL CONTROL POLICATIONAL HESTARICH and INNOApplications are invited for
the S.H.F. Quota Sindralship
to be beld by a member of the
above course. Application of the
interior second class homores
in either the Surial
Sciences or Humanities Held
and main satisty the S.S.H.F. S
offer conditions of displating
I prince principality and application towns may be obtained
from Mr. H. Humb, B. Held
from Mr. H. Humb, B. Held
GNH. Sulfibration, The Unfversity. Sulfibration, Billy
SNH.

STILLANG LINANCIAL AID IN An S.S.H.I. STURINTSHIP Inker in this project will be realised from the lower 1977. Turther particulars on be obtained from the Secretary (III.), this resily of Silving, Silving, 189 41A, to whom applications should be sent by 36th June 1977.

Colleges and Departments of Art

Surrey County Council West Surrey College of Art and Design

Head of Department-Grade IV

Department of History of Art and

Complementory Studies

This post commences tel September, 1977, or as soon as possible insrealler. The pareour appointed will leed a department providing courses to CNAA degree end other students at this developing College, which has some 800 full-time students. Applicants must possess high ecademic qualifications in the history of er and design or engilest relevant discriptive and about have design or enother relevent discipline end should have experience of edministration and teaching at degree level. Further research end/or publication will be

en advaulage. Salary in eccordence with Burnham F.E. Scale £6,756 to £7,032 plus £312 salary emplement plus £150 Generous relocation expenses will be synilable in on

appropriete cese. Springricules and application forms from :
The Chief Administrative Officer, Weel Surrey College of Art and
Coalger, Falker Rood, The Heri, Fernham, Surrey Que 708.
Completed applications should rooch the Administrative
Officer within three weeks of the appearance of this adventise-

General Vacancies

Staff Tutor

(Organisation Studies and Management Skills)

£5625 - £7375 p.a. inc.

Dire le the promotion of the nument holder, a vincency less ansen for a Staff Tulor of the CEGB Staff Callaga, Buxton, Oarbyshire, to specialise in the cease state catago, passion, Darbyshire, to specialise in the tooching of organisation stitidias and related management subjects. This will demand an understanding of the bahnylogical ecianons, organisational theory and management precities and some knowledge of the structure and organisational processes of a major nationalised.

The succeedul condidate will have four mejor responsibilities: - to oct as course nranegar for a number of courses; to local the specialist subjects; to papers supporting training material s.g. coopstudies, booklets, etc., and to easist the widening development and asserch work undersken by the Stall College Initially most of the futerial time will be seent extensions without the supporting training to the support of the supporting training without the support of the supporting training without the support of t ima will be spent servicing residential general and module

Applicants must be groduates or professionally qualifier. praidialrly with a post-graduate menagement qualification, Saveral years of industrial or commercial experience is ssoniisi. Adult leaching experience sither part-time or ull-lima in managemant cubjects is desirable, including exponence in the uso of eppropriate opined training

Applications stating Juli relevant details and present salary to the Group Personnel Olinear, CENTRAL ELECTRICITY GENERATING BOARD, Sudbury House, 15 Nowgato Street, London EC1A 7AU, by 17 June 1977. Quoie Ref THES/12B.

NATIONAL ASSOCIATION OF TEACHERS IN FURTHER & HIGHER EDUCATION

ASSISTANT SECRETARY (FURTHER EDUCATION)

The National Association of Teachers in Further & Higher Education requires an Assistant Secretary for Further Education to work under the Education Secretary. Seleny on Symbol F.E. Scalos Head, et. Oppariment Brades III/IV 156,231 -10 17,882 p. a. plus aupplements of \$312 and \$180 and a Loadon Allowance of \$4021. Further dotelle and application form traitments by Juno 28th, 1977 from the Ganaral Secretary, NATPHE, Hamillen Heats, Nabladen Plass, London WC1H 92H, Tel.: 01-367 6005.

THE ASSOCIATED EXAMINING BOAM Ior the General Carillicate of Education Welliagion House Aldershet Hempshire Outs 180 Applications are invited for the post of

Ing the amount of the current teaching required.

Mr Atherton illustrates his argument by the anecdote of e girl pupil who asked: "But, Sir, when will I ever aced e vector?" and says that there is no answer to the girl's question. Nor so. A teacher with any imagination would answer that she tray any anethor live without them. Every anyement she makes produces a relocity vector and every exertion a force vector.

With equal logic, one could state

Sir,—In the context of the current educationed discussion, I would like to refer to some problems essociated with the mathematical educationed discussion, I would like to refer to some problems essociated with the mathematical educationed discussion, I would like to refer to some problems essociated with the mathematical educationed discussion, I would like to refer to some problems essociated with the mathematical educationed discussion, I would like to refer to some problems essociated with the mathematical educationed discussion, I would like to refer to some problems essociated with the mathematical education of children in our primary and secondary schools.

I note that the DES has emained its intention of financing to enable unqualified teachers of medication and secondary schools.

I note that the DES has emained its intention of financing to enable unqualified teachers of medication and secondary schools. Applications are invited from appropriately quality men and women for a poel of Temporary Lecturers. History in Its Church of Englead Voluntary College of Higher Education (1,800 men and women studer. The appointment will be from September 1, 1977 to August 31, 1978. The college, which was formed to the amalgamation of The College, Ripon, and St. John's College, York, offers courses leading to the award of the Certificate in Education, the Diploma in Higher Education, the BEd, and EA/BSC in Higher Education, the BEd, and BA/BSC (Collegiule) degrees and the Postgraduate Ceffice in Education of the University of Loads and the Diploma of the Entist Association of Occupation

Considere should hold high aradomic qualifications in Pr & of Illistory. If is bejied that the person superinted will be 12 to eller a range of English and European History, preferring Modelin, industry nogatibles. In Medicinella History and shady of the will considered a knowleaver of the initiary and shady of the will community would also be an advantage. Conditions from Intuition there particular informals and experiences its testing of perfection is not experienced. Excellent

Thin appointment will be at Lecturer Guads Illed (£3,279 plus £312 plus £153 to £5 493 plus £312 pt £180].

Finition details and neglication forms may be obtained from Principal. The College of Threen and York St. John Gol Rept Walls, York YOU (7.2) to a from considered forms should be refutered to accome not later than Monday, June 77, 1977.



thus in a Catholic College of Howell ration with 1,290 students (med.) ration informat degrees of Leaden Feb. sily nurl Throoms level in Ad, \$45 Himmonthes and Education.

St Mary's PHYSICAL College EDUCATION

Applications ore revited from well of the which becomes available in Septem 1977. However, consideration well in the property of the property to leke up the eppointment until lenger 1978. Cendidates should be able to the a eignificant contribution in e meets aspect of the B.Ed./B.Hum. Confee contribution in e meets ond elso experiise in a practical area. Selary in accordance with his Brand Further Education scale and London Ant

Further deletes from the Principal by the explications should be sent with the name of three referses. There are no officers

forms.

Applications to this address solities of Friday, 24th June, 1977, The Philipping Friday, 24th June, 1977, The Philipping Mary's College, Strewberry ME, India ham, TW1 48X. Tel. 01-892 005; 21

Colleges of Education General Vacante

LINCOLN BISHOP GRASSITARTE FOR EL GO (Principal, Legante Marsh)

Hennited for last Senfenier.
1977. a 1203711117 in Case1987. a 120371117 in Case1987. a 120371117 in CaseItalians ond reaching entersence, she to twent in main
Cutations and reaching entertourists to deques bovel and
howing a lively interest an
leaching inolhools. A strong fretorest in linguistic a 1918-12.
Would to object and helpful.
Itig post is a renderaty fine
for one veer, it sale all
tolorist accommodation sequential date.

Bulley Lecturer II E5,279
In C5,10.3 spins C772 appolement plus between \$115 and
filler editions sneaph neart;
I belief editions and epidecetion box 5027 in beliefer if
Irin pd Streety. Archestron should be re-lutted but fact does julia

sitry pilered will be la & Al22,032 to A\$24,308. Maded by exceptional libra and experience, a libra may be considered. SHROPSH is less and conditions will be to those applying to those applying to those applying to differ al. / STINEWSBURY MATHEMATA

SWINBURNE COLLEGE OF TECHNOLOGY

MATHEMATICS

OUALIFICATIONS:

A degree, preferably a higher degree with a major quali-fication in Methematics. Extensive experience, preferably in industrial consultancy, research, lessing and admin-

The Registrar,

information to be supplied by applicant; full name and address, dete end piece of birth, merital status, quelificene, education and professional experience, details of published works, nemes and eddresses of three releases, present eppointment, end date at which it could be reliquished end any other information thought to be relevent by the applicant.

A division of Bwinburne College of Technology Limited.

Announcements

STUDENT TRAVELLER Cheapest flights, irrains world-wide, for young people, 100 destinations—Tirrible Student Association, 2.12 Kails Court Gardeni, Lordon, S.W.5, 01-370 6355. REMINDER

Copy for Classified THES elrould errive dele of publication

LETTERS TO THE EDITOR

then. Every anyement she makes produces a relocity vector and every exertion a force vector.

With equal logic, one coold state its pedagogy, since they have the "everyday" kind (such as reading newspapers and attvertise-ments, writing letters and filling in forms) and the "other" kind (including books, quested with the forms) and the "other" kind (including books, quested and the would then he argued that dents in particular who have completely and the solutions are there students are the eachers are three students are to be employed? Is the dents in particular who have completely with the local authorities and insighted teachers of methers to upgrade their knowledge both of the subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have the dent subject and its pedagogy, since they have they have the dent subject and its pedagogy the subject such (rare) expertise as the dent subject and its pedagogy the subject

graduating with a second class in Sir,—It was somewhat interesting to unter force years in the hospital serbusiness smilles, is a mere £2,000,

vice.
The economic law would eppea

Yours sincerely, DAVID R. SMITH Illugly Hospital Staff

Announcements

Studentship

Triennial Review

Trismail Review

(11 1 July, 1877, le lie closing date for tocalpt of lorme 55 from departments applying for recognities in the 558C Studentship Scheme for the 1678/78-1800/8i seedoning years.

(21 Oepartments with postgraductic courses or research training programmes currently in the SSRC Studentship Scheme etiouted now have received the appropriation S9 forts from their registers.

(32) Oepartments with postgraduction S9 forts from their registers.

(33) Oepartments of loring secial sectonce postgraducts testing secial sectonce postgraducts testing secial sectonce postgraducts testing nor previously recognised by SSRC for the Secontably Scheme are invited to apply: details are available from John 2761g. Postgradusts Training Olivaton, 161:

(3-353 SSES Ex 3.

(4) Notification of the results of the roview will be media in November, 1877. Courses or training programmes of two quotes seaues will be notified of their silection of swards in Merch, 1978. for the 1978/79 scademic year.

1978. for the 1978/79 scadenic year.

15) Computing studestablys—deposiments chould note their the SSRC Computing Committee will consider applications from departments of error of training in a social science area where the aim is to exploit compating leaining in a novel way within the social science area where the solid solonce disciplins. The scholation and novel application of well-established isolated application of well-established isolated as a condition of well-established isolated for his committee will be looking iter a reasonably close tink believen the social spience department and a computing cartre to ensure that singless are obequately expervised.

(6) a edifficient departments which have engoing social solutions are search projects may be eligible to apply for a computing squanter time of the search departments about contact Mike Wood, Computing Committee Secretarial, tol: 01-553: 5252 Ex. 67.

Committee Becrearies, 53: 5252 Ex. 67: 58RC, 7 Tampla Avenue London SCAY: 980

SOCIAL SCIENCE

RESEARCH COUNCIL

Classified Advertisemen

o advertise in the THES phone

John Ludbrock 01-837 1234

THE TIMES

Overseas

AUSTRALIA

VICTORIAN

INSTITUTE OF

SECONDARY

EDUCATION

The Institute was ostabilished in Dasomber, 1978, by Act of naisement as an entonomous history body. Instanced by State forwhishly for all metious related to the breaking of persons from secondary school to further indicate entologyment, or from modername to further modern entologyment, or from modername to further modern entologyment, or from modername to further modername to further modername to the billing will be into erranging of reconduity and soldsvement of excondary sudgets. The health of the forest by a Council all wunning the members of the further to the further modername to the further modername to the further modername of the further shallow of Professor Kwong Loo on all the further further to the further thanks of the furthe

HEAD OF

CURRICULUM

ASSESSMENT

AND

BRANCH

Hawthorn, Victoria, Australia

Principal Lecturer

Swinburne College of Technology le a tertiary educa-lional Institution attitieted with the Violorie Institute of Colleges, with a large measure of eufonomy under the governorehip of a College Council. The College le situated in Hawthorn, approximately four miles from the centre of Melbourne in the state of Victoria.

centro of Melbourne in the sleto of Victoria.

The Department of Melhomelice has e stell of 24 and is part of the Faculty of Applied Science. For a number of years, the department has offered Methemetics for students undertaking courses in Enginearing, Applied Science, Business and Aris. The department has recently developed a major streem in Methemetics specialising in operations research and statistics for the degree of Bechelor of Applied Science. The successful applicant will be responsible to the Head of Department for the academic leedership in one or more of the erese of ectivities of the department. ol eclivities of the department.

BALARY: Austrellan \$23,344. CLOSING DATE: 22 July, 1977. FURTHER INFORMATION: A schedule of dulies may be obtained from the Registrer. APPLICATIONS:

Applications, in duplicate, should be addressed to:



Swinburne College of Technology,
PO Box 218,
Hawthorn, Violonia 3122
Australia.

Advertisements in the not later then 10.30 am Mondey preceding the

CAPRICORNIA INSTITUTE OF ADVANCED EDUCATION, ROCKHAMPTON, QUEENSLAND

AUSTRALIA

re-advertiscment

Applications are invited from suitably qualified persons for the position of :-

Head of Department of Curriculum Studies **School of Education**

Current salary \$ Aust. 25263 per annum

This is one of two departments comurising the school of education of the instante which is a regional college of education offering degree, diplomas and postgraduate courses in Arts, Businese Education, Engineering and Sciences.

A three-year pre-service course leading in the diploma of teaching (primary) is currently offered as a one-year in-service course for experienced teaching leading to the same ervard. A B.Ed. (primary) is planned to commence in 1978.

Applicants should have substantial practical and/or

Applicants should have substantial practical and/or research experience in one or more curriculum access relevant to the primary school. An interest in team teaching and integrated curricule programmes would be perticularly appropriate to the current teaching ectivities of the department.

Application forms and further information are evailable from the Agent General for Queensland, 392 Strand, London, W.C.2 Application closes 8th Januery, 1978.

Courses

LONDON THE UNIVERSITY ENSITTUTE OF BOUGATION N. ATHORN W. A.I. irriober 1977, Issues concreming rights, the use of Ingislaition and all oduration in lossos
sequestilles and testar discremination, are of increasing imperance nationally ned
informationally, the realer purposes of the contrete are to increased sware case of city in a creased sware case of city in a part of the contrete case of city of city in a city in a city of city of city in a city in a city of city part of city in a city in a city city in a city in a city in a city city in a city in a city in a city city in a city in a city in a city in a part of city in a city in a city in a city city in a city in a city in a city in a city city in a c

There will be a core course desing, with philosophical irgs, historical and political agreets of rights and a choice of one of three aprices; the rights of the dissilvationed; the course agreed to the dissilvations of the course against one of the course against one and coursel of rights.

The course will extend over two years part-ibno, There will be scope in some parts of the course for work of direct practical application.

Colleges of Further Education

CAMBRIDGESTIFE COLLEGE OF ARTS AND

Required for one year only from Reptomber, 1977.

The successful applicant will be required to the Property on the D.A. Henours (CMA) and on the D.A. Henours (CMA) and on the Attained Linguist Scoretarial Course and essent with the feaching of the Fronch language courses a Experience of the Course of the Course of the CMA o Salary 29,013 le 24,869. Plarting point dependent on qualifications and experience. Further details from ilead of Persity of Aris and Languages, Court. Cambridge CB1 2AJ, Forms should be roturned by 24th June; 1977

Higher **Education** SUPPLEMENT

New Printing House Square, .O. Roy 7, Gray's less Road Lordon WCLX IEZ

F **G** 1